

The
Property of

ZERO

$0+980=980$

$3461+0=3461$

$0+393=393$

$2561+0=2561$

$24+0=24$

$2156+0=2156$

$1000+0=1000$

$0+111=111$

$0+15=15$

$37+0=37$

$4215+0=4215$

$160+0=160$

$0+2900=2900$

$10+0=10$

$900+0=900$

What do you notice about the facts in the box above?

Whenever you add 0 to a number, the sum is itself.

When you add 0 to a number, the sum is always that number. Try it!

$236+0=$

236

$1400+0=$

1400

$0+1212=$

1212

$0+981=$

981

$7000+0=$

7000

$0+267=$

267

$25+0=$

25

$0+241=$

241

$2490+0=$

2490

Write 12 "Plus 0" facts in the box below:

ANSWERS WILL VARY. ASK YOUR TEACHER TO CHECK THESE EQUATIONS.

True OR False?

Shade the rectangles.

True - Green

False - Red

$$450+0=450$$

GREEN

$$4000+0=40,000$$

RED

$$0+68=680$$

RED

$$3000+0=3000$$

GREEN

$$82+0=82$$

GREEN

$$4561+0=4562$$

RED

$$711+0=711$$

GREEN

$$0+9000=0$$

RED

$$0+9999=9999$$

GREEN

$$10+0=100$$

RED

$$50+0=500$$

RED

$$1212+0=1212$$

GREEN

Write five "Plus 0" equations that are TRUE:

ANSWERS WILL VARY. ASK YOUR
TEACHER TO CHECK THE
EQUATIONS.

Write five "Plus 0" equations that are FALSE:

ANSWERS WILL VARY. ASK YOUR
TEACHER TO CHECK THE
EQUATIONS.

One

MORE

NUMBER	1 MORE
3551	3552
213	214
709	710
1145	1146
42	43
8965	8966
9	10

NUMBER	1 MORE
198	199
2409	2410
5557	5558
354	355
86	87
15	16
336	337

When you add 1, the sum is always ONE MORE than that number.

$$329 + 1 = \underline{330}$$

↑
1 more than 329

$$110 + 1 = \underline{111}$$

↑
1 more than 110

$$203 + 1 = \underline{204}$$

↑
1 more than 203

$$2112 + 1 = \underline{2113}$$

↑
1 more than 2112

$$5262 + 1 = \underline{5263}$$

↑
1 more than 5262

$$59 + 1 = \underline{60}$$

↑
1 more than 59

Let's Use PLUS ONE

We can use Plus 1 for other equations. Take a look at the equations below:

$$2+1=3 \longrightarrow 20+10=30 \longrightarrow 200+100=300 \longrightarrow 2000+1000=3000$$

$$5+1=6 \longrightarrow 50+10=60 \longrightarrow 500+100=600 \longrightarrow 5000+1000=6000$$

$$8+1=9 \longrightarrow 80+10=90 \longrightarrow 800+100=900 \longrightarrow 8000+1000=9000$$

What do you notice about the equations in the box above?

ANSWERS WILL VARY.

Fill in the blanks:

$$3+1= \underline{4} \longrightarrow 30+10= \underline{40} \longrightarrow 300+100= \underline{400} \longrightarrow 3000+1000= \underline{4000}$$

$$8+1= \underline{9} \longrightarrow 80+10= \underline{90} \longrightarrow 800+100= \underline{900} \longrightarrow 8000+1000= \underline{9000}$$

$$4+1= \underline{5} \longrightarrow 40+10= \underline{50} \longrightarrow 400+100= \underline{500} \longrightarrow 4000+1000= \underline{5000}$$

$$7+1= \underline{8} \longrightarrow 70+10= \underline{80} \longrightarrow 700+100= \underline{800} \longrightarrow 7000+1000= \underline{8000}$$

$$1+1= \underline{2} \longrightarrow 10+10= \underline{20} \longrightarrow 100+100= \underline{200} \longrightarrow 1000+1000= \underline{2000}$$

$$2+1= \underline{3} \longrightarrow 20+10= \underline{30} \longrightarrow 200+100= \underline{300} \longrightarrow 2000+1000= \underline{3000}$$

$$6+1= \underline{7} \longrightarrow 60+10= \underline{70} \longrightarrow 600+100= \underline{700} \longrightarrow 6000+1000= \underline{7000}$$

$$5+1= \underline{6} \longrightarrow 50+10= \underline{60} \longrightarrow 500+100= \underline{600} \longrightarrow 5000+1000= \underline{6000}$$

Ones, Tens, Hundreds, Thousands: The Plus One Facts

$3+1=4$ → $30+10=40$ → $300+100=400$ → $3000+1000=4000$

Draw base ten blocks for each equation. Then write the sum.

$6+1=$ 7

$5000+1000=$ 6000

$40+10=$ 50

$200+100=$ 300

$20+10=$ 30

$7000+1000=$ 8000

$300+100=$ 400

Extending the Plus One Facts

When we see an equation like this: $700+100=$ _____, we can think to ourselves, "I know that $7+1=8$, so $700+100=800$."

When we see an equation like this: $7000+1000=$ ____, we can think to ourselves, "I know that $7+1=8$, so $7000+1000=8000$."

Write the sum for each equation. If the sum is less than 4999, shade the box yellow. If the sum is greater than 4999, shade the box orange:

$$50+10= \underline{60}$$

YELLOW

$$8000+1000= \underline{9000}$$

ORANGE

$$400+100= \underline{500}$$

YELLOW

$$9+1= \underline{10}$$

YELLOW

$$100+100= \underline{200}$$

YELLOW

$$3000+1000= \underline{4000}$$

YELLOW

$$60+10= \underline{70}$$

YELLOW

$$500+100= \underline{600}$$

YELLOW

$$2000+1000= \underline{3000}$$

YELLOW

$$7000+1000= \underline{8000}$$

ORANGE

$$800+100= \underline{900}$$

YELLOW

$$4+1= \underline{5}$$

YELLOW

$$200+100= \underline{300}$$

YELLOW

$$30+10= \underline{40}$$

YELLOW

$$1000+1000= \underline{2000}$$

YELLOW

$$700+100= \underline{800}$$

YELLOW

$$6000+1000= \underline{7000}$$

ORANGE

$$70+10= \underline{80}$$

YELLOW

Putting It ALL TOGETHER

Use the Plus 0 and Plus 1 strategies to complete each equation.

$4509 + \boxed{0} = 4509$

$400 + \boxed{100} = 500$

$2000 + \boxed{1000} = 3000$

$3980 + \boxed{1} = 3981$

$600 + \boxed{100} = 700$

$124 + \boxed{1} = 125$

$30 + \boxed{10} = 40$

$2000 + \boxed{1} = 2001$

$48 + \boxed{0} = 48$

$7982 + \boxed{1} = 7983$

$200 + \boxed{100} = 300$

$900 + \boxed{100} = 1000$

$450 + \boxed{0} = 450$

$1000 + \boxed{1000} = 2000$

$70 + \boxed{10} = 80$

$615 + \boxed{1} = 616$

$7000 + \boxed{1000} = 8000$

$199 + \boxed{1} = 200$

Write 4 equations that use the plus 1 strategy with 100's, or 1000's:

Answers will vary. Ask your teacher to check your equations.

Two

MORE

NUMBER	2 MORE
3482	3484
2446	2448
314	316
25	27
509	511
4713	4715
1000	1002

NUMBER	2 MORE
365	367
89	91
7	9
1703	1705
250	252
567	569
9003	9005

When you add 2, the sum is always TWO MORE than that number.

$$3490 + 2 = \underline{3492}$$

↑
2 more
than 3490

$$600 + 2 = \underline{602}$$

↑
2 more than
600

$$398 + 2 = \underline{400}$$

↑
2 more than 398

$$225 + 2 = \underline{227}$$

↑
2 more than 225

$$1314 + 2 = \underline{1316}$$

↑
2 more than 1314

$$87 + 2 = \underline{89}$$

↑
2 more than 87

Let's Use PLUS TWO

We can use Plus 2 for other equations. Take a look at the equations below:

$$5+2=7 \longrightarrow 50+20=70 \longrightarrow 500+200=700 \longrightarrow 5000+2000=7000$$

$$3+2=5 \longrightarrow 30+20=50 \longrightarrow 300+200=500 \longrightarrow 3000+2000=5000$$

$$6+2=8 \longrightarrow 60+20=80 \longrightarrow 600+200=800 \longrightarrow 6000+2000=8000$$

What do you notice about the equations in the box above?

ANSWERS WILL VARY.

Fill in the blanks:

$$3+2= \underline{5} \longrightarrow 30+20= \underline{50} \longrightarrow 300+200= \underline{500} \longrightarrow 3000+2000= \underline{5000}$$

$$5+2= \underline{7} \longrightarrow 50+20= \underline{70} \longrightarrow 500+200= \underline{700} \longrightarrow 5000+2000= \underline{7000}$$

$$4+2= \underline{6} \longrightarrow 40+20= \underline{60} \longrightarrow 400+200= \underline{600} \longrightarrow 4000+2000= \underline{6000}$$

$$7+2= \underline{9} \longrightarrow 70+20= \underline{90} \longrightarrow 700+200= \underline{900} \longrightarrow 7000+2000= \underline{9000}$$

$$1+2= \underline{3} \longrightarrow 10+20= \underline{30} \longrightarrow 100+200= \underline{300} \longrightarrow 1000+2000= \underline{3000}$$


$$2+2= \underline{4} \longrightarrow 20+20= \underline{40} \longrightarrow 200+200= \underline{400} \longrightarrow 2000+2000= \underline{4000}$$

$$6+2= \underline{8} \longrightarrow 60+20= \underline{80} \longrightarrow 600+200= \underline{800} \longrightarrow 6000+2000= \underline{8000}$$

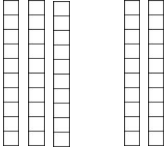
$$5+2= \underline{7} \longrightarrow 50+20= \underline{70} \longrightarrow 500+200= \underline{700} \longrightarrow 5000+2000= \underline{7000}$$

Ones, Tens, Hundreds, Thousands: The Plus Two Facts

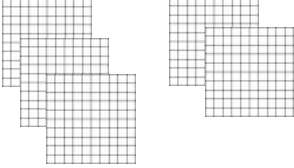
$3+2=5$ → $30+20=50$ → $300+200=500$ → $3000+2000=5000$



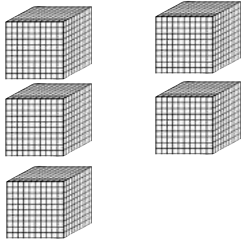
 3 groups of 1
 +
 2 groups of 1



 3 groups of 10 + 2 groups of 10




 3 groups of 100 + 2 groups of 100



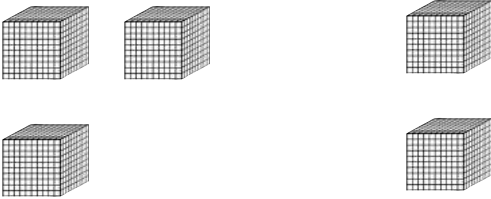
 3 groups of 1000 + 2 groups of 1000

Draw base ten blocks for each equation. Then write the sum.

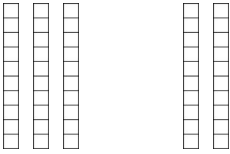
$4+2=$ 6



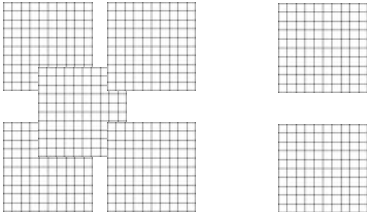
$3000+2000=$ 5000



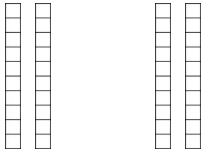
$30+20=$ 50



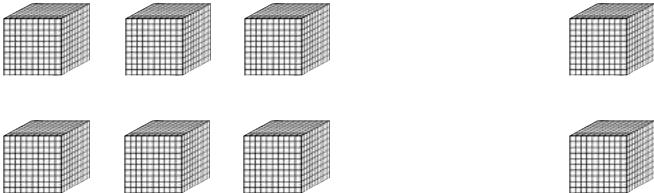
$500+200=$ 700



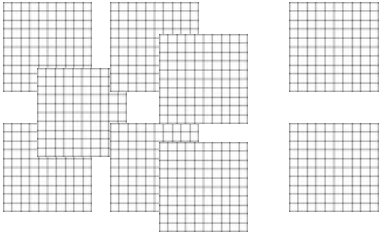
$20+20=$ 40



$6000+2000=$ 8000



$700+200=$ 900



Extending the Plus Two Facts

When we see an equation like this: $400+200=$ ____, we can think to ourselves, "I know that $4+2=6$, so $400+200=600$."

When we see an equation like this: $4000+2000=$ ____, we can think to ourselves, "I know that $4+2=6$, so $4000+2000=6000$."

Write the sum for each equation. If the sum is less than 4999, shade the box light blue. If the sum is greater than 4999, shade the box red:

$$60+20= \underline{80}$$

LIGHT BLUE

$$1000+2000= \underline{3000}$$

LIGHT BLUE

$$3000+2000= \underline{5000}$$

RED

$$4000+2000= \underline{6000}$$

RED

$$500+200= \underline{700}$$

LIGHT BLUE

$$5000+2000= \underline{7000}$$

RED

$$700+200= \underline{900}$$

LIGHT BLUE

$$200+200= \underline{400}$$

LIGHT BLUE

$$7000+2000= \underline{9000}$$

RED

$$400+200= \underline{600}$$

LIGHT BLUE

$$50+20= \underline{70}$$

LIGHT BLUE

$$30+20= \underline{50}$$

LIGHT BLUE

$$300+200= \underline{500}$$

LIGHT BLUE

$$100+200= \underline{300}$$

LIGHT BLUE

$$6000+2000= \underline{8000}$$

RED

$$2000+2000= \underline{4000}$$

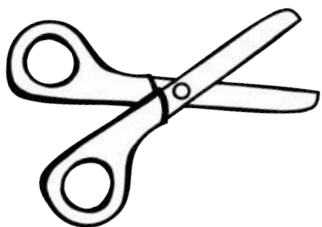
LIGHT BLUE

$$900+200= \underline{1100}$$

LIGHT BLUE

$$80+20= \underline{100}$$

LIGHT BLUE



Graph It!

Cut out each equation. Paste it onto the graph.

$60+20$				
$300+200$		$3000+1000$	$6000+1000$	$9756+2$
$498+2$	$2000+1000$	$3000+2000$	$6578+2$	$7000+1000$
$600+200$	$2369+2$	$4568+2$	$6050+0$	$8000+1000$
Sums between 0 and 1999	Sums between 2000 and 3999	Sums between 4000 and 5999	Sums between 6000 and 7999	Sums between 8000 and 9999

Sum

$600+200$	$8000+1000$	$4568+2$	$6050+0$	$498+2$
$3000+2000$	$2369+2$	$7000+1000$	$300+200$	$6578+2$
$2000+1000$	$60+20$	$9756+2$	$6000+1000$	$3000+1000$

PLUS THREE

Let's review the plus three strategy:

$$105 + \begin{array}{|c|} \hline \bullet \bullet \bullet \\ \hline \end{array} = \underline{108}$$

↑ ↑

Say, "105." Use the dots to count up.
Say, "106, 107, 108.."

OR

Think to yourself,
"Which number is 3
more than 105?"

Use the dots to count on.

$176 + \begin{array}{|c|} \hline \bullet \bullet \bullet \\ \hline \end{array} = \underline{179}$

$78 + \begin{array}{|c|} \hline \bullet \bullet \bullet \\ \hline \end{array} = \underline{81}$

$3908 + \begin{array}{|c|} \hline \bullet \bullet \bullet \\ \hline \end{array} = \underline{3911}$

$209 + \begin{array}{|c|} \hline \bullet \bullet \bullet \\ \hline \end{array} = \underline{212}$

$700 + \begin{array}{|c|} \hline \bullet \bullet \bullet \\ \hline \end{array} = \underline{703}$

$450 + \begin{array}{|c|} \hline \bullet \bullet \bullet \\ \hline \end{array} = \underline{453}$

$1176 + \begin{array}{|c|} \hline \bullet \bullet \bullet \\ \hline \end{array} = \underline{1179}$

$6900 + \begin{array}{|c|} \hline \bullet \bullet \bullet \\ \hline \end{array} = \underline{6903}$

$8429 + \begin{array}{|c|} \hline \bullet \bullet \bullet \\ \hline \end{array} = \underline{8432}$

$2000 + \begin{array}{|c|} \hline \bullet \bullet \bullet \\ \hline \end{array} = \underline{2003}$

$376 + \begin{array}{|c|} \hline \bullet \bullet \bullet \\ \hline \end{array} = \underline{379}$

$772 + \begin{array}{|c|} \hline \bullet \bullet \bullet \\ \hline \end{array} = \underline{775}$

$9830 + \begin{array}{|c|} \hline \bullet \bullet \bullet \\ \hline \end{array} = \underline{9833}$

$27 + \begin{array}{|c|} \hline \bullet \bullet \bullet \\ \hline \end{array} = \underline{30}$

$99 + \begin{array}{|c|} \hline \bullet \bullet \bullet \\ \hline \end{array} = \underline{102}$

Find the sums:

$3476 + 3 = \underline{3479}$

$567 + 3 = \underline{570}$

$4500 + 3 = \underline{4503}$

$1001 + 3 = \underline{1004}$

$400 + 3 = \underline{403}$

$34 + 3 = \underline{37}$

$2375 + 3 = \underline{2378}$

$4000 + 3 = \underline{4003}$

$2734 + 3 = \underline{2737}$

$800 + 3 = \underline{803}$

$1999 + 3 = \underline{2002}$

$100 + 3 = \underline{103}$

Let's Use PLUS THREE

Just like Plus 1 and Plus 2, we can use Plus 3 for other equations. Take a look at the equations below:

$$2+3=5 \longrightarrow 20+30=50 \longrightarrow 200+300=500 \longrightarrow 2000+3000=5000$$

$$6+3=9 \longrightarrow 60+30=90 \longrightarrow 600+300=900 \longrightarrow 6000+3000=9000$$

$$5+3=8 \longrightarrow 50+30=80 \longrightarrow 500+300=800 \longrightarrow 5000+3000=8000$$

How is the Plus 3 strategy similar to the Plus 1 and Plus 2 strategies?

ANSWERS WILL VARY.

Fill in the blanks:

$$3+3= \underline{6} \longrightarrow 30+30= \underline{60} \longrightarrow 300+300= \underline{600} \longrightarrow 3000+3000= \underline{6000}$$

$$2+3= \underline{5} \longrightarrow 20+30= \underline{50} \longrightarrow 200+300= \underline{500} \longrightarrow 2000+3000= \underline{5000}$$

$$4+3= \underline{7} \longrightarrow 40+30= \underline{70} \longrightarrow 400+300= \underline{700} \longrightarrow 4000+3000= \underline{7000}$$

$$6+3= \underline{9} \longrightarrow 60+30= \underline{90} \longrightarrow 600+300= \underline{900} \longrightarrow 6000+3000= \underline{9000}$$

$$1+3= \underline{4} \longrightarrow 10+30= \underline{40} \longrightarrow 100+300= \underline{400} \longrightarrow 1000+3000= \underline{4000}$$

$$5+3= \underline{8} \longrightarrow 50+30= \underline{80} \longrightarrow 500+300= \underline{800} \longrightarrow 5000+3000= \underline{8000}$$

Extending the Plus Three Facts

Now that you know how to extend the Plus 1 and Plus 2 facts, extending the Plus 3 facts is easy! Let's practice!

Write the sum for each equation. Circle the equation that was the most difficult to figure out. Shade in the box for the equation that was the easiest.

$$100+300=\underline{400}$$

$$800+300=\underline{1100}$$

$$4000+3000=\underline{7000}$$

$$50+30=\underline{80}$$

$$200+300=\underline{500}$$

$$2000+3000=\underline{5000}$$

$$20+30=\underline{50}$$

$$500+300=\underline{800}$$

$$300+300=\underline{600}$$

$$6000+3000=\underline{9000}$$

$$40+30=\underline{70}$$

$$1000+3000=\underline{4000}$$

Solve the problems. Show your work for each one.

The play structure costs \$6000. A swing set costs \$3000. How much does it cost for the play structure and swing set altogether?

$$\$6000+\$3000=\$9000$$

The play structure and swing costs \$9000 altogether.

There are 400 people at the concert. There are still 300 empty seats. How many seats are at the concert in all?

$$400+300=700$$

There are 700 seats in all.

Putting It All TOGETHER

Use the strategies that you have learned so far to solve the equations.

$$\begin{array}{r} 3000+3= \\ \underline{3003} \end{array}$$

$$\begin{array}{r} 3256+1= \\ \underline{3257} \end{array}$$

$$\begin{array}{r} 40+20= \\ \underline{60} \end{array}$$

$$\begin{array}{r} 400+100= \\ \underline{500} \end{array}$$

$$\begin{array}{r} 4445+2= \\ \underline{4447} \end{array}$$

$$\begin{array}{r} 50+30= \\ \underline{80} \end{array}$$

$$\begin{array}{r} 300+100= \\ \underline{400} \end{array}$$

$$\begin{array}{r} 5490+3= \\ \underline{5493} \end{array}$$

$$\begin{array}{r} 7000+1000= \\ \underline{8000} \end{array}$$

$$\begin{array}{r} 6000+2000= \\ \underline{8000} \end{array}$$

$$\begin{array}{r} 0+9899= \\ \underline{9899} \end{array}$$

$$\begin{array}{r} 600+300= \\ \underline{900} \end{array}$$

$$\begin{array}{r} 40+30= \\ \underline{70} \end{array}$$

$$\begin{array}{r} 3000+2000= \\ \underline{5000} \end{array}$$

$$\begin{array}{r} 4000+3000= \\ \underline{7000} \end{array}$$

$$\begin{array}{r} 8000+1000= \\ \underline{9000} \end{array}$$

$$\begin{array}{r} 200+200= \\ \underline{400} \end{array}$$

$$\begin{array}{r} 3490+0= \\ \underline{3490} \end{array}$$

$$\begin{array}{r} 1002+2= \\ \underline{1004} \end{array}$$

$$\begin{array}{r} 70+20= \\ \underline{90} \end{array}$$

Recording Sheet



Record the addends and sum for each equation.

Your answers will be in a different order.

Addend	Addend	Sum
1298	0	1298
2349	1	2350
1	8700	8701
40	10	50
900	100	1000
3000	1000	4000
70	90	160
300	200	500
900	200	1100
500	200	700
6000	2000	8000
4000	2000	6000

Addend	Addend	Sum
1000	2000	3000
3455	3	3458
7808	3	7811
2101	3	2104
40	30	70
70	30	100
50	30	80
200	300	500
800	300	1100
900	300	1200
3000	3000	6000
6000	3000	9000

Let's Practice the
Doubles Facts

$$\begin{array}{|c|} \hline \cdot \\ \hline \end{array} + \begin{array}{|c|} \hline \cdot \\ \hline \end{array} = \underline{16}$$

$$\begin{array}{|c|} \hline \cdot \\ \hline \end{array} + \begin{array}{|c|} \hline \cdot \\ \hline \end{array} = \underline{6}$$

$$\begin{array}{|c|} \hline \cdot \\ \hline \end{array} + \begin{array}{|c|} \hline \cdot \\ \hline \end{array} = \underline{2}$$

$$\begin{array}{|c|} \hline \cdot \\ \hline \end{array} + \begin{array}{|c|} \hline \cdot \\ \hline \end{array} = \underline{20}$$

$$\begin{array}{|c|} \hline \cdot \\ \hline \end{array} + \begin{array}{|c|} \hline \cdot \\ \hline \end{array} = \underline{14}$$

$$\begin{array}{|c|} \hline \cdot \\ \hline \end{array} + \begin{array}{|c|} \hline \cdot \\ \hline \end{array} = \underline{4}$$

$$\begin{array}{|c|} \hline \cdot \\ \hline \end{array} + \begin{array}{|c|} \hline \cdot \\ \hline \end{array} = \underline{10}$$

$$\begin{array}{|c|} \hline \cdot \\ \hline \end{array} + \begin{array}{|c|} \hline \cdot \\ \hline \end{array} = \underline{22}$$

$$\begin{array}{|c|} \hline \cdot \\ \hline \end{array} + \begin{array}{|c|} \hline \cdot \\ \hline \end{array} = \underline{12}$$

$$\begin{array}{|c|} \hline \cdot \\ \hline \end{array} + \begin{array}{|c|} \hline \cdot \\ \hline \end{array} = \underline{18}$$

$$\begin{array}{|c|} \hline \cdot \\ \hline \end{array} + \begin{array}{|c|} \hline \cdot \\ \hline \end{array} = \underline{24}$$

$$\begin{array}{|c|} \hline \cdot \\ \hline \end{array} + \begin{array}{|c|} \hline \cdot \\ \hline \end{array} = \underline{8}$$

Solve the doubles equations. If the sum is less than 15, shade the circle yellow. If the sum is greater than 15, shade the circle red.

$$4+4 = \underline{8}$$

 YELLOW

$$8+8 = \underline{16}$$

 RED

$$11+11 = \underline{22}$$

 RED

$$3+3 = \underline{6}$$

 YELLOW

$$12+12 = \underline{24}$$

 RED

$$1+1 = \underline{2}$$

 YELLOW

$$6+6 = \underline{12}$$

 YELLOW

$$9+9 = \underline{18}$$

 RED

$$5+5 = \underline{10}$$

 YELLOW

$$10+10 = \underline{20}$$

 RED

$$2+2 = \underline{4}$$

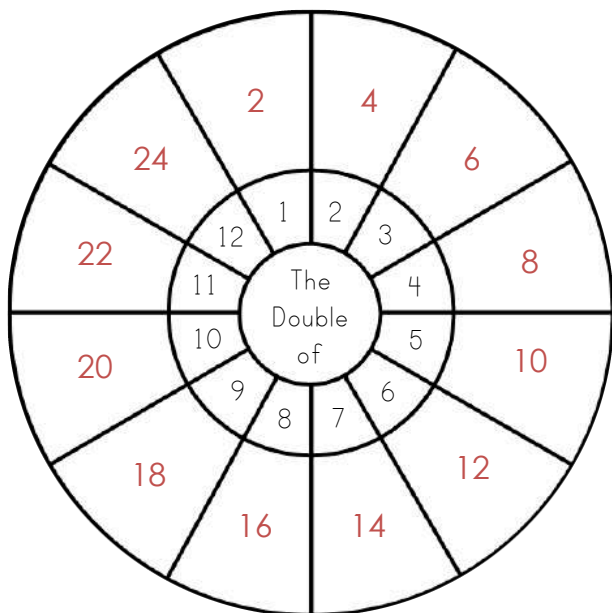
 YELLOW

$$7+7 = \underline{14}$$

 YELLOW

Doubles Fun

Complete the doubles wheel:



Fill in the missing addends:

$\underline{12} + \underline{12} = 24$	$\underline{3} + \underline{3} = 6$
$\underline{4} + \underline{4} = 8$	$\underline{10} + \underline{10} = 20$
$\underline{8} + \underline{8} = 16$	$\underline{7} + \underline{7} = 14$
$\underline{1} + \underline{1} = 2$	$\underline{6} + \underline{6} = 12$
$\underline{11} + \underline{11} = 22$	$\underline{2} + \underline{2} = 4$
$\underline{5} + \underline{5} = 10$	$\underline{9} + \underline{9} = 18$

Solve the problems. Remember to show your work.

There are 12 eggs in one carton. How many eggs are in 2 cartons? How about 4 cartons?

$$12+12=24$$

There are 24 eggs in 2 cartons.

$$12+12+12+12=48$$

There are 48 eggs in 4 cartons.

Each truck has 4 wheels. How many wheels are on 2 trucks? How about 4 trucks?

$$4+4=8$$

There are 8 wheels on 2 trucks.

$$4+4+4+4=16$$

There are 16 wheels on 4 trucks.

Extending The Doubles

We have practiced "extending" in other levels, like Plus 1, Plus 2, and Plus 3. Now let's practice extending the doubles facts!

$$4+4=8 \longrightarrow 40+40=80 \longrightarrow 400+400=800 \longrightarrow 4000+4000=8000$$

$$2+2=4 \longrightarrow 20+20=40 \longrightarrow 200+200=400 \longrightarrow 2000+2000=4000$$

Solve the equations:

$3000+3000 = \underline{6000}$

$9+9 = \underline{18}$

$1000+1000 = \underline{2000}$

$20+20 = \underline{40}$

$2000+2000 = \underline{4000}$

$50+50 = \underline{100}$

$400+400 = \underline{800}$

$300+300 = \underline{600}$

$80+80 = \underline{160}$

$200+200 = \underline{400}$

$100+100 = \underline{200}$

$4000+4000 = \underline{8000}$

Some doubles are more difficult to extend. Let's take a look:

$$8+8=16 \longrightarrow 800+800=1600$$



Think: "8 groups of 100 + 8 groups of 100 makes 16 groups of 100."

Solve the equations. Circle the ones that you find difficult.

$600+600 = \underline{1200}$

$80+80 = \underline{160}$

$9+9 = \underline{18}$

$90+90 = \underline{180}$

$700+700 = \underline{1400}$

$70+70 = \underline{140}$

$500+500 = \underline{1000}$

$8+8 = \underline{16}$

$20+20 = \underline{40}$

DOUBLES PRACTICE

Complete each equation:

$$500 + \underline{500} = 1000$$

$$60 + 60 = \underline{120}$$

$$\underline{3000} + 3000 = 6000$$

$$\underline{10} + 10 = 20$$

$$800 + \underline{800} = 1600$$

$$200 + \underline{200} = 400$$

$$2000 + \underline{2000} = 4000$$

$$400 + 400 = \underline{800}$$

$$\underline{50} + 50 = 100$$

$$\underline{20} + 20 = 40$$

$$1000 + \underline{1000} = 2000$$

$$70 + \underline{70} = 140$$

$$\underline{900} + 900 = 1800$$

$$10 + \underline{10} = 20$$

$$100 + \underline{100} = 200$$

$$300 + \underline{300} = 600$$

$$700 + 700 = \underline{1400}$$

$$\underline{4000} + 4000 = 8000$$

$$\underline{30} + 30 = 60$$

$$8 + \underline{8} = 16$$

$$900 + \underline{900} = 1800$$

Solve the problem:

There are 4000 books in the library. The librarian, Mrs. Smith, would like to double her collection. How many books does Mrs. Smith want to have in the library altogether?

$$4000 + 4000 = 8000$$

Mrs. Smith would like to have 8000 books in the library altogether.

Putting It All Together: Bubble Gum Addition

$$\begin{array}{r} 1000+4000= \\ \underline{5000} \end{array}$$

$$\begin{array}{r} 3000+2= \\ \underline{3002} \end{array}$$

$$\begin{array}{r} 2980+3= \\ \underline{2983} \end{array}$$

$$\begin{array}{r} 30+20= \\ \underline{50} \end{array}$$

$$\begin{array}{r} 0+2100= \\ \underline{2100} \end{array}$$

$$\begin{array}{r} 50+20= \\ \underline{70} \end{array}$$

$$\begin{array}{r} 3000+4000= \\ \underline{7000} \end{array}$$

$$\begin{array}{r} 30+30= \\ \underline{60} \end{array}$$

$$\begin{array}{r} 8000+1000= \\ \underline{9000} \end{array}$$

$$\begin{array}{r} 2000+3000= \\ \underline{5000} \end{array}$$

$$\begin{array}{r} 3349+1= \\ \underline{3350} \end{array}$$

$$\begin{array}{r} 700+700= \\ \underline{1400} \end{array}$$

$$\begin{array}{r} 765+0= \\ \underline{765} \end{array}$$

$$\begin{array}{r} 2+459= \\ \underline{461} \end{array}$$

$$\begin{array}{r} 3+6874= \\ \underline{6877} \end{array}$$

$$\begin{array}{r} 600+100= \\ \underline{700} \end{array}$$

$$\begin{array}{r} 40+30= \\ \underline{70} \end{array}$$

$$\begin{array}{r} 500+500= \\ \underline{1000} \end{array}$$

$$\begin{array}{r} 700+200= \\ \underline{900} \end{array}$$

$$\begin{array}{r} 2454+1= \\ \underline{2455} \end{array}$$

$$\begin{array}{r} 70+10= \\ \underline{80} \end{array}$$

$$\begin{array}{r} 3000+3000= \\ \underline{6000} \end{array}$$

$$\begin{array}{r} 1000+2000= \\ \underline{3000} \end{array}$$

$$\begin{array}{r} 100+500= \\ \underline{600} \end{array}$$

$$\begin{array}{r} 4000+4000= \\ \underline{8000} \end{array}$$

$$\begin{array}{r} 300+200= \\ \underline{500} \end{array}$$

$$\begin{array}{r} 40+10= \\ \underline{50} \end{array}$$

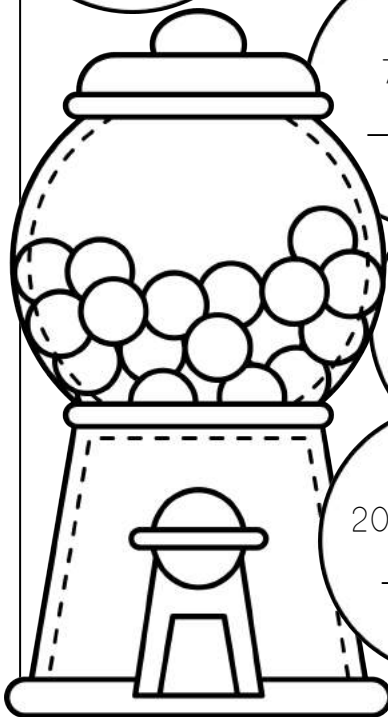
$$\begin{array}{r} 50+30= \\ \underline{80} \end{array}$$

$$\begin{array}{r} 2000+4000= \\ \underline{6000} \end{array}$$

$$\begin{array}{r} 30+90= \\ \underline{120} \end{array}$$

$$\begin{array}{r} 1000+2000= \\ \underline{3000} \end{array}$$

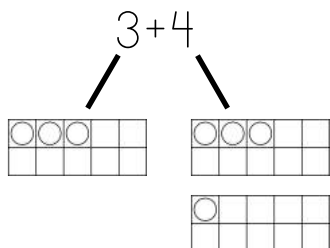
$$\begin{array}{r} 7000+2000= \\ \underline{9000} \end{array}$$



The Double... Plus One More!

When you see addends that differ by 1, you can use the doubles plus one strategy.

Example



← Think: "3+3=6 and 1 more makes 7."

$3+4=7$

Now it's your turn!

$7+8$

← Think: "7+7= 14 and 1 more makes 15."

$7+8=$ 15

$5+6$

← Think: "5+5= 10 and 1 more makes 11."

$5+6=$ 11

$9+10$

← Think: "9+9= 18 and 1 more makes 19."

$9+10=$ 19

$2+3$

← Think: "2+2= 4 and 1 more makes 5."

$2+3=$ 5

$8+9$

← Think: "8+8= 16 and 1 more makes 17."

$8+9=$ 17

$1+2$

← Think: "1+1= 2 and 1 more makes 3."

$1+2=$ 3

$3+4$

← Think: "3+3= 6 and 1 more makes 7."

$3+4=$ 7

$10+11$

← Think: "10+10= 20 and 1 more makes 21."

$10+11=$ 21

Let's Practice the Doubles Plus One Facts

$8+9=$ 17

$3+4=$ 7

$10+9=$ 19

$11+12=$ 23

$1+2=$ 3

$4+3=$ 7

$7+8=$ 15

$9+10=$ 19

$12+11=$ 23

$5+4=$ 9

$5+6=$ 11

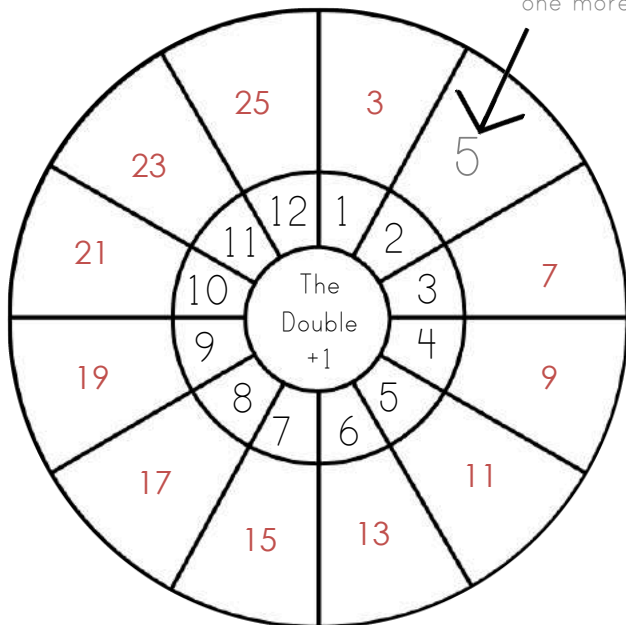
$10+11=$ 21

$9+8=$ 17

$2+3=$ 5

$8+7=$ 15

The double of 2 plus one more.



Write a story problem for the equation $8+9$.

Answers will vary. Ask your teacher to check your work.

Now solve the problem:

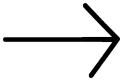
Which doubles +1 equations do you find the most difficult?

Answers will vary. Ask your teacher to check your work.

Extending the Doubles Plus One Facts

Just like you've learned to "extend" the other facts, now you can extend the doubles plus one facts to work with higher numbers. Try it!

Think: "2+3=5,
so
200+300=?"



$$200+300=$$

$$\underline{500}$$

$$9+10=$$

$$\underline{19}$$

$$3000+4000=$$

$$\underline{7000}$$

$$70+80=$$

$$\underline{150}$$

$$100+200=$$

$$\underline{300}$$

$$5+6=$$

$$\underline{11}$$

$$800+900=$$

$$\underline{1700}$$

$$40+50=$$

$$\underline{90}$$

$$50+60=$$

$$\underline{110}$$

$$80+90=$$

$$\underline{170}$$

$$11+12=$$

$$\underline{23}$$

$$300+400=$$

$$\underline{700}$$

$$60+70=$$

$$\underline{130}$$

$$1000+2000=$$

$$\underline{3000}$$

$$400+500=$$

$$\underline{900}$$

$$8+9=$$

$$\underline{17}$$

$$4000+5000=$$

$$\underline{9000}$$

$$30+40=$$

$$\underline{70}$$

$$600+700=$$

$$\underline{1300}$$

$$20+30=$$

$$\underline{50}$$

$$10+11=$$

$$\underline{21}$$

$$90+100=$$

$$\underline{190}$$

$$2000+3000=$$

$$\underline{5000}$$

Choose the Strategy

Choose the best strategy for each equation.

$30+40=$ _____

Which strategy works best:
doubles plus o

$2000+2000=$ _____

Which strategy works best:

$200+100=$ _____

Which strategy works
e or plus

Explain how yo

$9000+3000=$

Answers will vary. Ask your teacher to check this page.

$10+11=$ _____













Explain how the doubles plus one strategy works.
Double the number and then add 1 more.

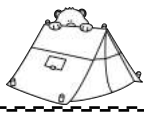
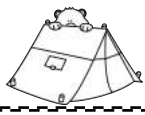

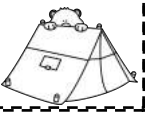
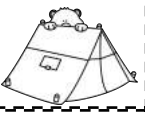
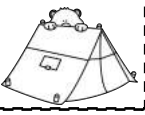
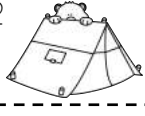
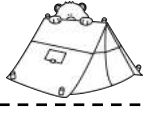
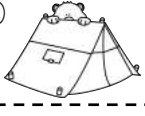
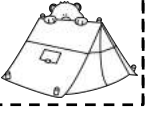
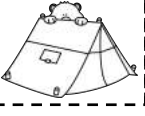
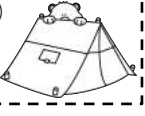
List 4 equations that you could use the doubles plus one strategy for:
Answers will vary. Ask your teacher to check your answer.

Put It Together Cut-and-Paste

6-E

Cut out the sums and paste them beside each equation. Use any of the strategies that you have learned so far.

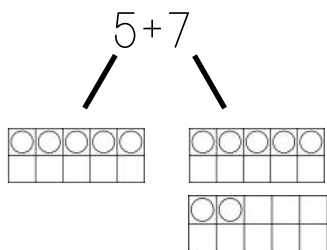
$50+20=$  <div style="border: 1px solid black; padding: 10px; display: inline-block;">70</div>	$300+500=$  <div style="border: 1px solid black; padding: 10px; display: inline-block;">800</div>	$50+50=$  <div style="border: 1px solid black; padding: 10px; display: inline-block;">100</div>
$800+100=$  <div style="border: 1px solid black; padding: 10px; display: inline-block;">900</div>	$700+200=$  <div style="border: 1px solid black; padding: 10px; display: inline-block;">900</div>	$50+10=$  <div style="border: 1px solid black; padding: 10px; display: inline-block;">60</div>
$90+30=$  <div style="border: 1px solid black; padding: 10px; display: inline-block;">120</div>	$600+600=$  <div style="border: 1px solid black; padding: 10px; display: inline-block;">1200</div>	$6000+3000=$  <div style="border: 1px solid black; padding: 10px; display: inline-block;">9000</div>
$500+200=$  <div style="border: 1px solid black; padding: 10px; display: inline-block;">700</div>	$1122+0=$  <div style="border: 1px solid black; padding: 10px; display: inline-block;">1122</div>	$12+12=$  <div style="border: 1px solid black; padding: 10px; display: inline-block;">24</div>

120	900	24	700	800	60
					
1122	100	9000	1200	70	900
					

The Double..Plus TWO More!

When you see addends that differ by 2, you can use the doubles plus two strategy.

Example



← Think: "5+5=10 and 2 more makes 12."

$5+7=12$

Now it's your turn!

$7+9$

← Think: "7+7= 14 and 2 more makes 16."

$7+9=$ 16

$5+7$

← Think: "5+5= 10 and 2 more makes 12."

$5+7=$ 12

$9+11$

← Think: "9+9= 18 and 2 more makes 20."

$9+11=$ 20

$2+4$

← Think: "2+2= 4 and 2 more makes 6."

$2+4=$ 6

$8+10$

← Think: "8+8= 16 and 2 more makes 18."

$8+10=$ 18

$1+3$

← Think: "1+1= 2 and 2 more makes 4."

$1+3=$ 4

$3+5$

← Think: "3+3= 6 and 2 more makes 8."

$3+5=$ 8

$10+12$

← Think: "10+10= 20 and 2 more makes 22."

$10+12=$ 22

Let's Practice the Doubles Plus Two Facts

$10 + 12 = \underline{22}$

$1 + 3 = \underline{4}$

$5 + 7 = \underline{12}$

$3 + 5 = \underline{8}$

$8 + 10 = \underline{18}$

$6 + 8 = \underline{14}$

$7 + 5 = \underline{12}$

$4 + 6 = \underline{10}$

$12 + 14 = \underline{26}$

$9 + 11 = \underline{20}$

$9 + 7 = \underline{16}$

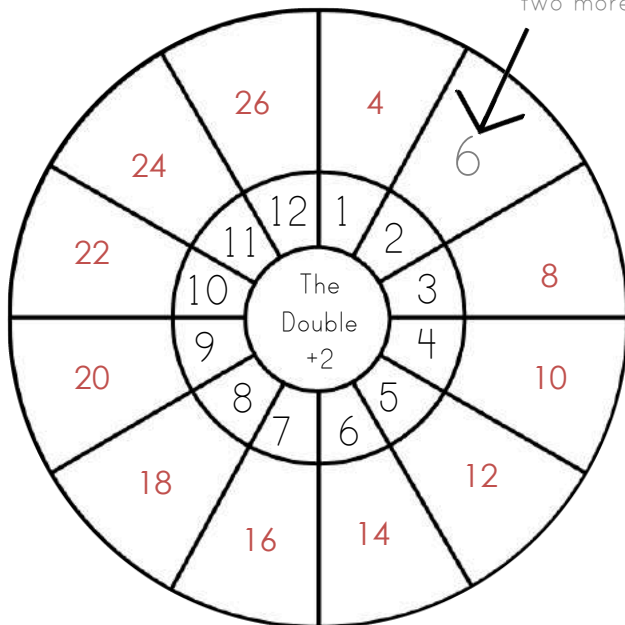
$2 + 4 = \underline{6}$

$11 + 13 = \underline{24}$

$7 + 9 = \underline{16}$

$6 + 4 = \underline{10}$

The double of 2 plus
two more.



Write a story problem for the equation $12 + 14$.

Answers will vary. Ask your teacher to check your work.

Now solve the problem:

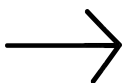
Which doubles +2 equations do you find the most difficult?

Answers will vary. Ask your teacher to check your equations.

Extending the Doubles Plus TWO Facts

Just like you've learned to "extend" the other facts, now you can extend the doubles plus TWO facts to work with higher numbers. Try it!

Think: "3+5=8,
so
3000+5000=?"



$$3000+5000=$$

$$\underline{8000}$$

{3 groups of 1000 + 5
groups of 1000}

$$500+700=$$

$$\underline{1200}$$

$$10+12= \underline{22}$$

$$700+900= \underline{1600}$$

$$2000+4000=$$

$$\underline{6000}$$

$$400+600= \underline{1000}$$

$$12+14= \underline{26}$$

$$80+100= \underline{180}$$

$$1000+3000=$$

$$\underline{4000}$$

$$70+90= \underline{160}$$

$$40+60= \underline{100}$$

$$5000+3000=$$

$$\underline{8000}$$

$$90+110= \underline{200}$$

{Think: 9 groups of 10 + 11
groups of 10}

$$300+500= \underline{800}$$

$$60+80= \underline{140}$$

$$4000+2000=$$

$$\underline{6000}$$

$$600+800= \underline{1400}$$

$$100+300= \underline{400}$$

$$11+13= \underline{24}$$

$$200+400= \underline{600}$$

$$500+300= \underline{800}$$

$$800+600= \underline{1400}$$

$$9+11= \underline{20}$$

Effective AND Efficient

When we choose a strategy to use, it should be EFFECTIVE (works well) and EFFICIENT (it helps us get the answer quickly). Which strategy do you think is the most effective and efficient?

Explain how you would solve $4000+2000$ using the Plus 2 strategy:

Think "2 more than 4 is 6, so 2000 more than 4000 is 6000."

Explain how you would solve $4000+2000$ using the Doubles Plus 2 strategy:

Think "The double of 2000 is 4000, plus 2000 more is 6000."

Which strategy is the most EFFECTIVE and EFFICIENT? Answers will vary.

Explain how you would solve $3000+3000$ using the Doubles strategy:

Think "The double of 3 is 6, so the double of 3000 is 6000."

Explain how you would solve $3000+3000$ using the Plus 3 strategy:

Think "3 more than 3 is 6, so 3000 more than 3000 is 6000."

Which strategy is the most EFFECTIVE and EFFICIENT? Answers will vary.

Solve these equations using the most EFFECTIVE and EFFICIENT strategy.

$600+800= \underline{1400}$

$30+10= \underline{40}$

$700+700= \underline{1400}$

$2000+4000= \underline{6000}$

$700+200= \underline{900}$

$20+40= \underline{60}$

$100+300= \underline{400}$

$4000+2000= \underline{6000}$

$500+700= \underline{1200}$

$500+500= \underline{1000}$

$300+500= \underline{800}$

$110+90= \underline{200}$

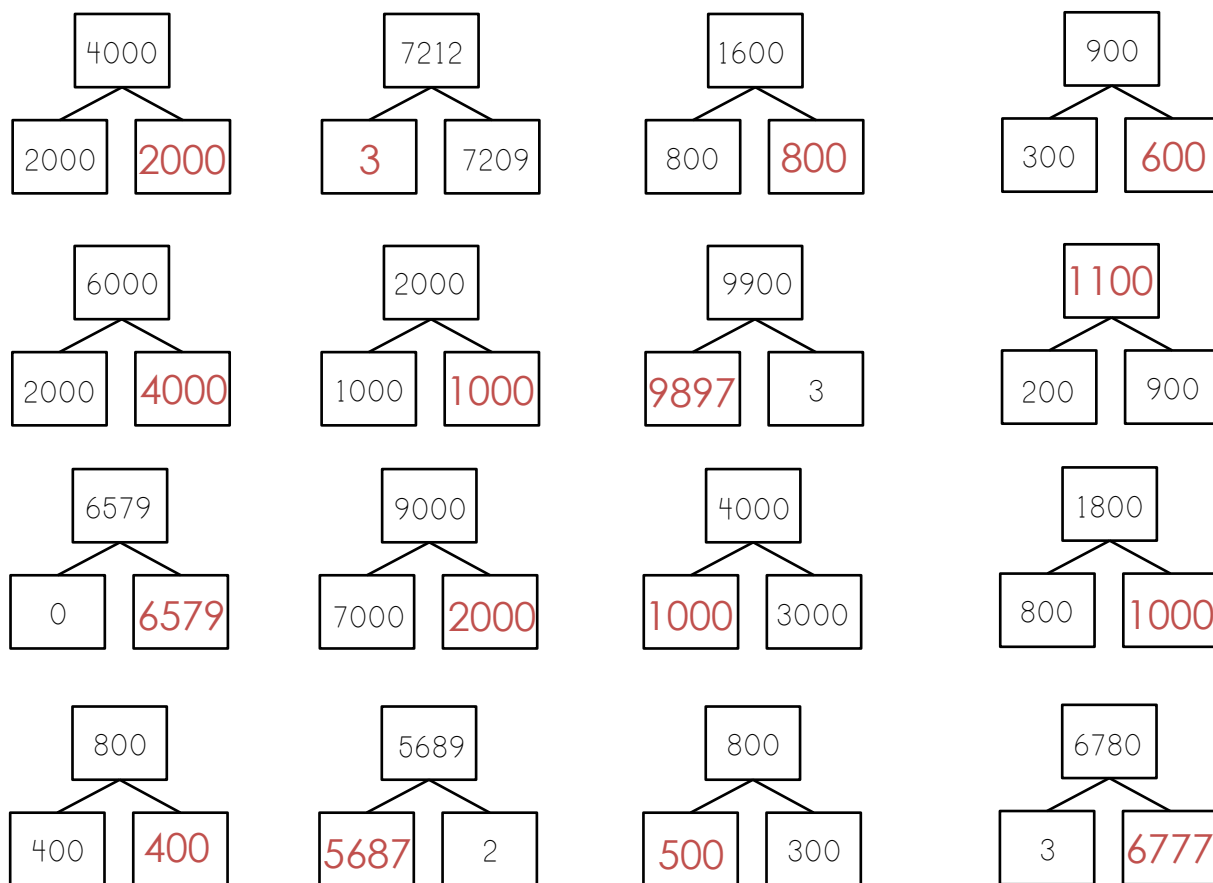
Putting ^{IT} ALL Together

Use any of the strategies that you have learned to complete these activities.

Write a greater than (>), less than (<), or equal sign (=).

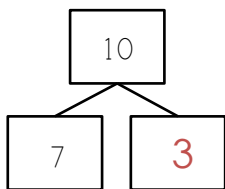
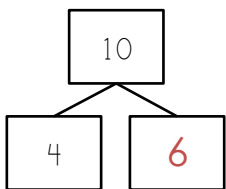
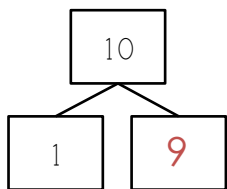
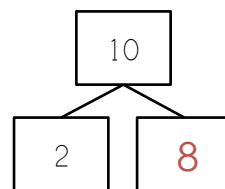
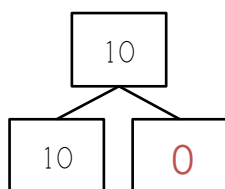
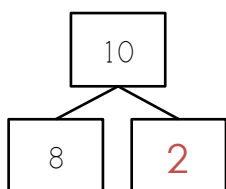
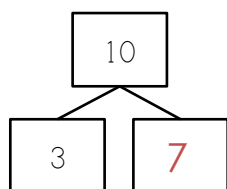
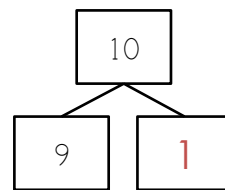
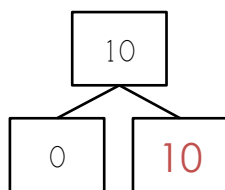
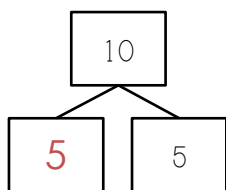
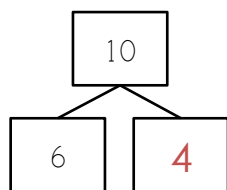
$5000+4000$	$>$	$5898+2$	$40+50$	$=$	$80+10$	$600+600$	$<$	$600+700$
$300+300$	$=$	$200+400$	$800+800$	$<$	$1000+1000$	$60+30$	$<$	$40+60$
$4000+3000$	$>$	$300+400$	$295+3$	$<$	$2+297$	$1978+1$	$>$	$100+100$
$0+578$	$<$	$500+100$	$1000+2000$	$>$	$1900+1$	$5000+2000$	$>$	$3000+3000$
$1000+2000$	$>$	$2900+3$	$500+500$	$=$	$999+1$	$100+300$	$<$	$300+500$

Fill in the missing number for each equation. Use any of the strategies that you have learned so far.



Making TEN

Fill in the missing addend for each "Making 10" equation.



This is a group of 10. Draw ones blocks to show how you could split up this group of 10 in four different ways.

Answers will vary. Possible combinations include: 1+9, 2+8, 3+7, 4+6, 5+5, 6+4, 7+3, 8+2, 9+1

___ + ___ = 10

___ + ___ = 10

___ + ___ = 10

___ + ___ = 10

Making 100

Now that you know the number combinations that add to 10, you can use similar combinations to make 100!

EXAMPLE

$7+3=10$	\longrightarrow	$70+30=100$
\uparrow		\uparrow
7 ones + 3 ones		7 groups of 10 + 3 groups of 10

Try it!

$3+7=$ 10 \longrightarrow $30+70=$ 100

$5+5=$ 10 \longrightarrow $50+50=$ 100

$8+2=$ 10 \longrightarrow $80+20=$ 100

$4+6=$ 10 \longrightarrow $40+60=$ 100

$9+1=$ 10 \longrightarrow $90+10=$ 100

$2+8=$ 10 \longrightarrow $20+80=$ 100

Fill in the missing numbers:

$1+9=$ 10

$0+10=$ 10

$80+$ 20 $=100$

$20+$ 80 $=100$

4 $+6=10$

3 $+7=10$

$50+50=$ 100

$100+0=$ 100

$7+$ 3 $=10$

$5+$ 5 $=10$

60 $+40=100$

2 $+8=10$

$30+70=$ 100

$90+10=$ 100

$8+$ 2 $=10$

$40+$ 60 $=100$

6 $+4=10$

10 $+90=100$

70 $+30=100$

0 $+100=100$

Dan and Fran went camping. It took them 20 minutes to set up their tent, and 80 minutes to make supper. Altogether, how many minutes did it take them to set up their tent and make supper?

$20+80=100$

Altogether, it took them 100 minutes to set up their tent and make supper.

Altogether there are 100 people at the football game. 30 of them are parents and the rest are kids. How many kids are at the football game?

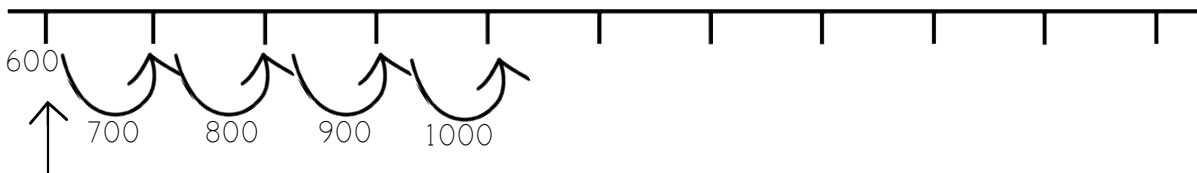
$30+?=100$

$30+70=100$

There are 70 kids at the football game.

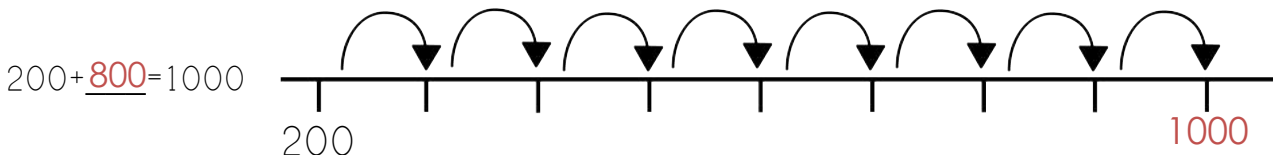
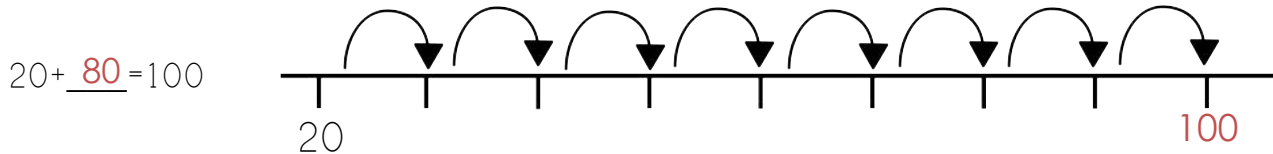
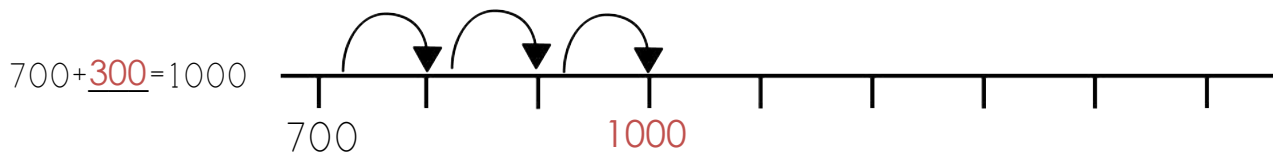
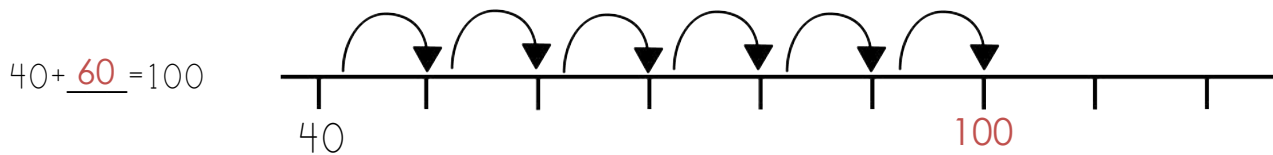
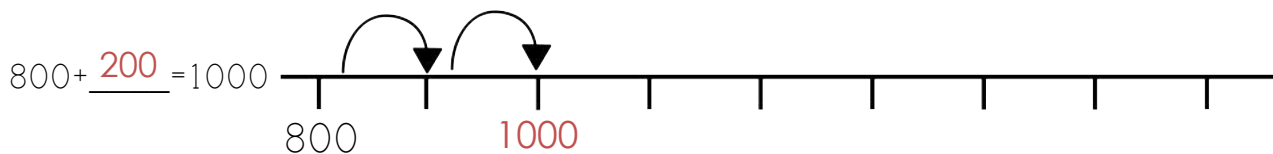
Use an Empty Number Line

You can use an empty number line to help you make 100 or 1000. Let's try it for $600 + \underline{\quad} = 1000$.



Write, "600." Then jump until you get to 1000. That's 4 jumps. $600 + 400 = 1000$

Use the number lines to make 100 or 1000.



Problem-Solving with 100 and 1000

There are 1000 lockers in the school. 200 of them are blue. 500 are red. The rest are brown. How many of the lockers are brown?

Show your work.

$$200+500+?=1000$$

300 of the lockers are brown.

$$200+500+300=1000$$

Grandma turned 100 years old today! For the first 20 years of her life, she lived in Australia. Then she lived in the USA for 10 years. For the rest of her life she lived in England. For how many years did she live in England?

Show your work.

$$20+10+?=100$$

Grandma lived in England for 70 years.

$$20+10+70=100$$

It takes 1000 pennies to make \$10.00. Dexter has 100 pennies. His sister has 300 pennies. How many more pennies do they need to make \$10.00?

Show your work.

$$100+300+?=1000$$

They need 600 more pennies to make \$10.00.

$$100+300+600=1000$$

Putting It All Together

Solve the equations using any of the strategies that you have learned so far. If the sum is EVEN, shade the box green. If the sum is ODD, shade the box blue.

$$\begin{array}{r} 900+900= \\ \underline{1800} \\ \text{GREEN} \end{array}$$

$$\begin{array}{r} 2349+2= \\ \underline{2351} \\ \text{BLUE} \end{array}$$

$$\begin{array}{r} 1118+3= \\ \underline{1121} \\ \text{BLUE} \end{array}$$

$$\begin{array}{r} 2000+2000= \\ \underline{4000} \\ \text{GREEN} \end{array}$$

$$\begin{array}{r} 300+100= \\ \underline{400} \\ \text{GREEN} \end{array}$$

$$\begin{array}{r} 600+800= \\ \underline{1400} \\ \text{GREEN} \end{array}$$

$$\begin{array}{r} 400+200= \\ \underline{600} \\ \text{GREEN} \end{array}$$

$$\begin{array}{r} 1000+8000= \\ \underline{9000} \\ \text{GREEN} \end{array}$$

$$\begin{array}{r} 4000+4000= \\ \underline{8000} \\ \text{GREEN} \end{array}$$

$$\begin{array}{r} 3000+6000= \\ \underline{9000} \\ \text{GREEN} \end{array}$$

$$\begin{array}{r} 1489+0= \\ \underline{1489} \\ \text{BLUE} \end{array}$$

$$\begin{array}{r} 12+13= \\ \underline{25} \\ \text{BLUE} \end{array}$$

$$\begin{array}{r} 2000+6000= \\ \underline{8000} \\ \text{GREEN} \end{array}$$

$$\begin{array}{r} 2000+4000= \\ \underline{6000} \\ \text{GREEN} \end{array}$$

$$\begin{array}{r} 800+800= \\ \underline{1600} \\ \text{GREEN} \end{array}$$

$$\begin{array}{r} 600+400= \\ \underline{1000} \\ \text{GREEN} \end{array}$$

$$\begin{array}{r} 800+300= \\ \underline{1100} \\ \text{GREEN} \end{array}$$

$$\begin{array}{r} 70+30= \\ \underline{100} \\ \text{GREEN} \end{array}$$

$$\begin{array}{r} 5090+3= \\ \underline{5093} \\ \text{BLUE} \end{array}$$

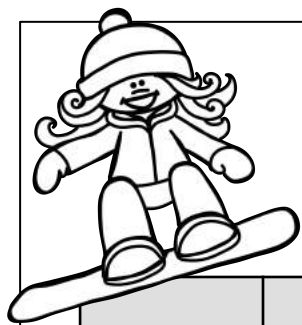
$$\begin{array}{r} 12+12= \\ \underline{24} \\ \text{GREEN} \end{array}$$

$$\begin{array}{r} 500+500= \\ \underline{1000} \\ \text{GREEN} \end{array}$$

$$\begin{array}{r} 3000+4000= \\ \underline{7000} \\ \text{GREEN} \end{array}$$



Let's put it all together!



ANSWER KEY Recording Sheet

Record the addends and sum for each equation.

Your answers will be in a different order.

Addend	Addend	Sum
1199	0	1199
9789	1	9790
80	10	90
900	100	1000
5000	1000	6000
3408	2	3410
90	20	110
400	200	600
3000	2000	5000
1919	3	1922
500	300	800
2000	3000	5000

Addend	Addend	Sum
12	12	24
70	70	140
900	900	1800
4000	4000	8000
500	600	1100
3000	4000	7000
2000	4000	6000
700	900	1600
60	40	100
30	70	100
900	100	1000
500	500	1000

Adding 10's and 100's

Thousands	Hundred s	Tens	Ones
3	4	7	3

3473+20= _____

Thousands	Hundreds	Tens	Ones
3	4	9	3

This shows 3 thousands, 4 hundreds, 7 tens and 3 ones.

When we add 20...

...we just add two more groups of 10 to the tens place. So in this example, we now have 3 thousands, 4 hundreds, 9 groups of 10, and 3 ones.

Use the number charts to add the 10's or 100's to each number.

Th	H	T	O
2	7	4	2

+30=

Th	H	T	O
2	7	7	2

2742+30= 2772

Th	H	T	O
3	7	1	3

+200=

Th	H	T	O
3	9	1	3

3713+200= 3913

Th	H	T	O
1	9	0	8

+80=

Th	H	T	O
1	9	8	8

1908+80= 1988

Th	H	T	O
2	1	3	9

+500=

Th	H	T	O
2	6	3	9

2139+500= 2639

Th	H	T	O
5	5	0	8

+60=

Th	H	T	O
5	5	6	8

5508+60= 5568

Th	H	T	O
8	4	1	1

+100=

Th	H	T	O
8	5	1	1

8411+100= 8511

Th	H	T	O
2	4	2	1

+60=

Th	H	T	O
2	4	8	1

2421+60= 2481

Th	H	T	O
	6	0	9

+3000=

Th	H	T	O
3	6	0	9

609+3000= 3609

Let's Add 10's and 100's

Solve the equations. Remember that order of addends doesn't matter.

$4902 + 10 = \underline{4912}$

$849 + 40 = \underline{889}$

$100 + 2807 = \underline{2907}$

$10 + 356 = \underline{366}$

$1110 + 400 = \underline{1510}$

$4982 + 10 = \underline{4992}$

$1916 + 30 = \underline{1946}$

$100 + 238 = \underline{338}$

$3829 + 100 = \underline{3929}$

$59 + 20 = \underline{79}$

$300 + 2590 = \underline{2890}$

$1824 + 50 = \underline{1874}$

$8415 + 100 = \underline{8515}$

$302 + 30 = \underline{332}$

$9000 + 80 = \underline{9080}$

$100 + 1440 = \underline{1540}$

$200 + 345 = \underline{545}$

$500 + 6161 = \underline{6661}$

$490 + 300 = \underline{790}$

$45 + 300 = \underline{345}$

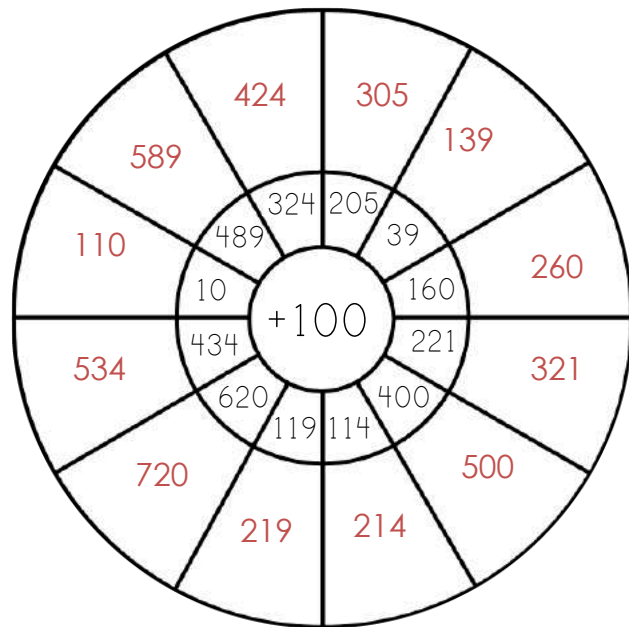
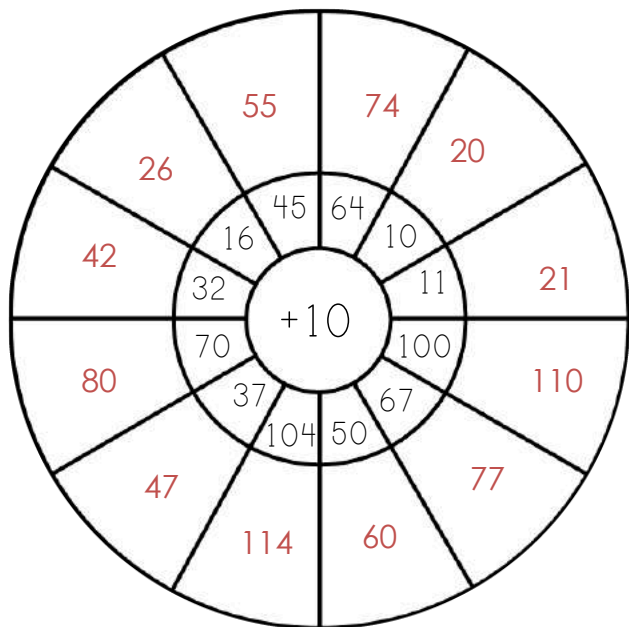
$80 + 8006 = \underline{8086}$

$20 + 3158 = \underline{3178}$

$560 + 30 = \underline{590}$

$756 + 20 = \underline{776}$

Complete the +10 and +100 Wheels:



Write and solve three +300 equations:

_____ + 300 = _____

_____ + 300 = _____

_____ + 300 = _____

Adding 10's and 100's WITH REGROUPING

Thousands	Hundred s	Tens	Ones
1	5	8	1

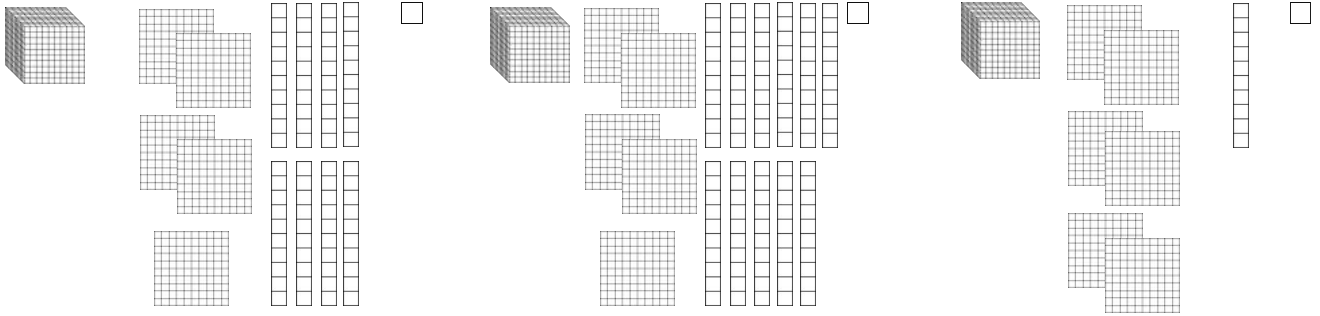
+30

Thousands	Hundred s	Tens	Ones
1	6	1	1

This shows 1 thousand, 5 hundreds, 8 tens and 1 one.

When we add 30, we end up with 11 groups of 10 in the tens column.

10 groups of 10 makes 100, so we take 10 tens and add 1 to the hundreds place. We still have 1 group of 10 leftover for the tens place.



Use the number charts to add the 10's or 100's to each number. Remember to regroup!

Th	H	T	O
1	4	5	6

+60=

Th	H	T	O
1	5	1	6

1456+60= 1516

Th	H	T	O
3	0	4	2

+90=

Th	H	T	O
3	1	3	2

3042+90= 3132

Th	H	T	O
8	6	1	2

+50=

Th	H	T	O
8	6	6	2

8612+50= 8662

Th	H	T	O
8	2	0	9

+800=

Th	H	T	O
9	0	0	9

8209+800= 9009

Th	H	T	O
4	9	2	0

+200=

Th	H	T	O
5	1	2	0

4920+200= 5120

Th	H	T	O
1	2	8	2

+40=

Th	H	T	O
1	3	2	2

1282+40= 1322

PRACTICING WITH 10'S AND 100'S

Let's practice adding groups of 10 and 100. Remember to regroup where you need to.

$1893+200= \underline{2093}$

$2782+200= \underline{2982}$

$5624+100= \underline{5724}$

$4820+60= \underline{4880}$

$1187+700= \underline{1887}$

$3498+20= \underline{3518}$

$657+400= \underline{1057}$

$4598+20= \underline{4618}$

$2000+400= \underline{2400}$

Fill in the unknowns:

$8749+40= \underline{8789}$

$800+ \underline{3132} =3932$

$\underline{4530} +60=4590$

$2423+60= \underline{2483}$

$700+ \underline{1281} =1981$

$\underline{100} +3459=3559$

$6902+80= \underline{6982}$

$70+ \underline{1200} =1270$

$\underline{3429} +40=3469$

$\underline{3537} +300=3837$

$5482+40= \underline{5522}$

$1002+700= \underline{1702}$

$4503+ \underline{500} =5003$

$\underline{1650} +60=1710$

$3892+400= \underline{4292}$

Maggie was born in 1980. What year will it be when she is 50 years old?

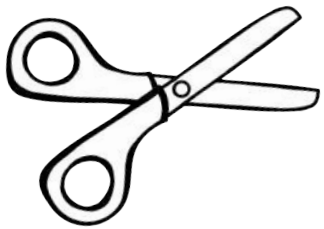
$1980+50=2030$

When Maggie is 50 years old, the year will be 2030.

So far the family has travelled for 2000 kilometers. They still have 2346 kilometers to go. In all, how many kilometers will they be travelling?

$2000+2346=4346$

In all, the family will be traveling 4346 kilometers.



Graph It!

Cut out each equation. Paste it onto the graph.

$400+400$				
$600+400$	$1200+1200$			
$600+100$	$3391+300$			
$459+100$	$3493+30$	$4020+800$	$7890+0$	$3000+5000$
$60+60$	$2490+300$	$2000+2000$	$6700+400$	$4000+5000$
Sums between 0 and 1999	Sums between 2000 and 3999	Sums between 4000 and 5999	Sums between 6000 and 7999	Sums between 8000 and 9999

Sum

$2490+300$	$60+60$	$4000+5000$	$459+100$	$6700+400$
$600+100$	$600+400$	$7890+0$	$3000+5000$	$2000+2000$
$3493+30$	$400+400$	$4020+800$	$3391+300$	$1200+1200$



USING TENS

To Add 7, 8, and 9

Friendly numbers are numbers that are easy to work with. Numbers like 10, 20, 50, 100, and 200 are friendly numbers.

$58+6$

Step 1: Let's take 2 away from the 6 and give it to the 58 to make a "friendly number."

Step 2: Now we have an easier equation to solve! $60+4=$ 64

$147+9=$ 156

Step 1: Take 3 away from the 9 and give it to the 147 to make a friendly number.

Step 2: Now we have an easier equation to solve: 150 + 6 = 156

$228+5=$ 233

Step 1: Take 2 away from the 5 and give it to the 228 to make a friendly number.

Step 2: Now we have an easier equation to solve: 230 + 3 = 233

$3149+6=$ 3155

Step 1: Take 1 away from the 6 and give it to the 3149 to make a friendly number.

Step 2: Now we have an easier equation to solve: 3150 + 5 = 3155

On a scale of 1-3, how well do you understand this strategy? (1 means you don't understand it, 2 means you "kind of" understand it but still need more practice, 3 means you understand it really well.)

Answers will vary.

LET'S KEEP PRACTICING!

$$2378 + 11 = \underline{2389}$$

Step 1: Take 2 away from the 11 and give it to the 2378 to make a friendly number.

Step 2: Now we have an easier equation to solve: $\underline{2380} + \underline{9} = \underline{2389}$

$$1818 + 12 = \underline{1830}$$

Step 1: Take 2 away from the 12 and give it to the 1818 to make a friendly number.

Step 2: Now we have an easier equation to solve: $\underline{1820} + \underline{10} = \underline{1830}$

$$777 + 9 = \underline{786}$$

Step 1: Take 3 away from the 9 and give it to the 777 to make a friendly number.

Step 2: Now we have an easier equation to solve: $\underline{780} + \underline{6} = \underline{786}$

$$129 + 7 = \underline{136}$$

Step 1: Take 1 away from the 7 and give it to the 129 to make a friendly number.

Step 2: Now we have an easier equation to solve: $\underline{130} + \underline{6} = \underline{136}$

$$3207 + 11 = \underline{3218}$$

Step 1: Take 3 away from the 11 and give it to the 3207 to make a friendly number.

Step 2: Now we have an easier equation to solve: $\underline{3210} + \underline{8} = \underline{3218}$

Let's Add 7, 8, and 9!

Solve the +7, +8, and +9 equations using the strategy that you learned. Use some real base 10 blocks if that makes it easier for you. Remember that order doesn't matter! So an equation like $5+8$ is the same as $8+5$; either one can be solved using the plus 8 strategy!

*Do you need to move any numbers around for this one?

$$\begin{array}{r} 349+5= \\ \underline{354} \end{array}$$

$$\begin{array}{r} 648+7= \\ \underline{655} \end{array}$$

$$\begin{array}{r} 289+11= \\ \underline{300} \end{array}$$

$$\begin{array}{r} 27+6= \\ \underline{33} \end{array}$$

$$\begin{array}{r} 219+10= \\ \underline{229} \end{array}$$

$$\begin{array}{r} 988+7= \\ \underline{995} \end{array}$$

$$\begin{array}{r} 857+8= \\ \underline{865} \end{array}$$

$$\begin{array}{r} 267+12= \\ \underline{279} \end{array}$$

$$\begin{array}{r} 398+5= \\ \underline{403} \end{array}$$

$$\begin{array}{r} 457+5= \\ \underline{462} \end{array}$$

$$\begin{array}{r} 118+9= \\ \underline{127} \end{array}$$

$$\begin{array}{r} 239+11= \\ \underline{240} \end{array}$$

$$\begin{array}{r} 528+9= \\ \underline{537} \end{array}$$

$$\begin{array}{r} 117+6= \\ \underline{123} \end{array}$$

$$\begin{array}{r} 767+4= \\ \underline{771} \end{array}$$

$$\begin{array}{r} 228+5= \\ \underline{233} \end{array}$$

$$\begin{array}{r} 909+6= \\ \underline{915} \end{array}$$

$$\begin{array}{r} 127+7= \\ \underline{134} \end{array}$$

$$\begin{array}{r} 367+4= \\ \underline{371} \end{array}$$

$$\begin{array}{r} 189+9= \\ \underline{198} \end{array}$$

$$\begin{array}{r} 578+6= \\ \underline{584} \end{array}$$

$$\begin{array}{r} 147+9= \\ \underline{156} \end{array}$$

$$\begin{array}{r} 138+6= \\ \underline{144} \end{array}$$

$$\begin{array}{r} 87+12= \\ \underline{99} \end{array}$$

$$\begin{array}{r} 9+6= \\ \underline{15} \end{array}$$

$$\begin{array}{r} 29+11= \\ \underline{40} \end{array}$$

$$\begin{array}{r} 578+4= \\ \underline{582} \end{array}$$

$$\begin{array}{r} 578+8= \\ \underline{586} \end{array}$$

$$\begin{array}{r} 149+4= \\ \underline{153} \end{array}$$

$$\begin{array}{r} 557+7= \\ \underline{564} \end{array}$$

$$\begin{array}{r} 899+6= \\ \underline{905} \end{array}$$

$$\begin{array}{r} 218+9= \\ \underline{227} \end{array}$$

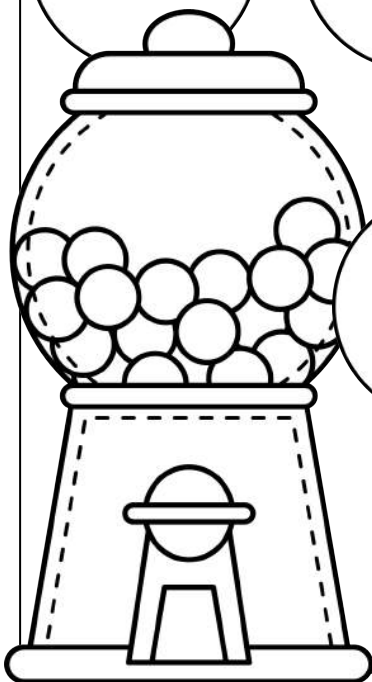
$$\begin{array}{r} 417+6= \\ \underline{423} \end{array}$$

$$\begin{array}{r} 268+4= \\ \underline{272} \end{array}$$

$$\begin{array}{r} 208+5= \\ \underline{213} \end{array}$$

$$\begin{array}{r} 698+4= \\ \underline{702} \end{array}$$

$$\begin{array}{r} 557+5= \\ \underline{562} \end{array}$$



Add It Up!

Fill in the missing numbers on the t-charts. Use the strategy that you learned for +7, +8 and +9.

+7

249	256
1178	1185
456	463
22	29
189	196
277	284
300	307
11	18
798	805
6009	6016
2890	2897
367	374
1788	1795

+8

247	255
60	68
2779	2787
59	67
1190	1198
268	276
1257	1265
6789	6797
256	264
1188	1196
3909	3917
58	66
20	28

+9

288	297
18	27
199	208
2679	2688
2278	2287
17	26
2777	2786
3009	3018
458	467
2167	2176
38	47
9	18
1907	1916

This month, Matthew worked for 119 hours. On the weekend he worked for 12 more hours. Altogether, how many hours did he work for?

Show your work.

$$119+12=131$$

Write an answer sentence.

Matthew worked for
131 hours altogether.

OUTER SPACE ADDITION

Use any of the strategies that you have learned so far to solve these equations:

$6981+0=$

6981

$200+800=$

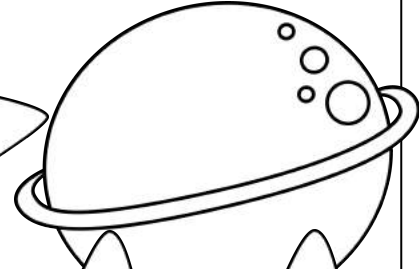
1000

$765+200=$

965

$1154+30=$

1184



$900+100=$

1000

$600+400=$

1000

$12+14=$

26

$1277+9=$

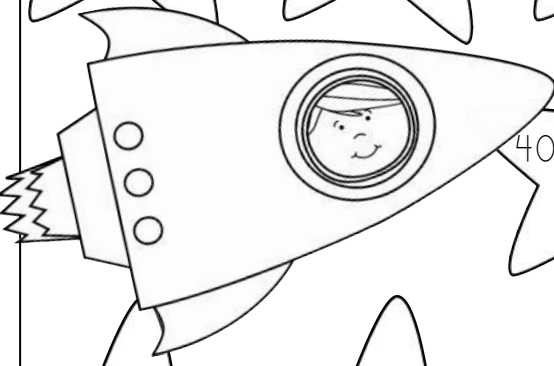
1286

$800+800=$

1600

$700+200=$

900



$4000+4000=$

8000

$529+11=$

540

$30+10=$

40

$2578+20=$

2598

$178+8=$

186

$600+100=$

700

$3000+3000=$

6000

$1472+400=$

1872

$500+500=$

1000

$499+4=$

503

$5000+3000=$

8000

$457+200=$

657

$200+800=$

1000

$10+1111=$

1121

$67+7=$

74

$900+300=$

1200

$900+900=$

1800

$500+6339=$

6839

$878+11=$

889

$3000+6000=$

9000

$5609+90=$

5699

$258+30=$

288

Adding 1000's

Thousands	Hundred s	Tens	Ones
5	3	0	9

5309+1000= _____

Thousands	Hundreds	Tens	Ones
6	3	0	9

This shows 5 thousands, 3 hundreds, 0 tens and 9 ones.

When we add 1000...

...we just add one more group of 1000 to the thousands place. So in this example, we now have 6 thousands, 3 hundreds, 0 groups of 10, and 9 ones.

Use the number charts to add 1000 or a multiple of 1000 to each number.

Th	H	T	O
2	7	4	2

+2000=

Th	H	T	O
4	7	4	2

2742+2000= 4742

Th	H	T	O
3	5	0	3

+2000=

Th	H	T	O
5	5	0	3

3503+2000= 5503

Th	H	T	O
7	1	1	4

+1000=

Th	H	T	O
8	1	1	4

7114+1000= 8114

Th	H	T	O
3	0	9	0

+4000=

Th	H	T	O
7	0	9	0

3090+4000= 7090

Th	H	T	O
	6	1	4

+7000=

Th	H	T	O
7	6	1	4

614+7000= 7614

Th	H	T	O
1	5	9	8

+4000=

Th	H	T	O
5	5	9	8

1598+4000= 5598

Th	H	T	O
6	0	0	9

+1000=

Th	H	T	O
7	0	0	9

6009+1000= 7009

Th	H	T	O
2	6	0	0

+5000=

Th	H	T	O
7	6	0	0

2600+5000= 7600

Let's Add Thousands!

Solve the Plus 1000 equations. Remember that the order of the addends doesn't matter.

$4561 + 2000 = \underline{6561}$

$2598 + 2000 = \underline{4598}$

$2590 + 2000 = \underline{4590}$

$1000 + 2300 = \underline{3300}$

$1000 + 1888 = \underline{2888}$

$1000 + 2576 = \underline{3576}$

$1578 + 3000 = \underline{4578}$

$2745 + 3000 = \underline{5745}$

$3000 + 3000 = \underline{6000}$

$2587 + 4000 = \underline{6587}$

$4812 + 4000 = \underline{8812}$

$1257 + 4000 = \underline{5257}$

$1919 + 1000 = \underline{2919}$

$7600 + 1000 = \underline{8600}$

$7529 + 1000 = \underline{8529}$

$6000 + 2376 = \underline{8376}$

$6000 + 2699 = \underline{8699}$

$6000 + 125 = \underline{6125}$

$2000 + 300 = \underline{2300}$

$2000 + 100 = \underline{2100}$

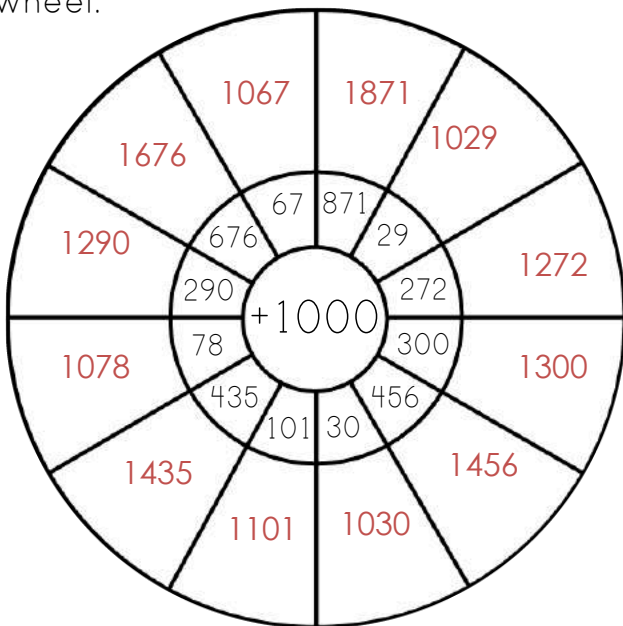
$2000 + 2444 = \underline{4444}$

$5000 + 1982 = \underline{6982}$

$5000 + 360 = \underline{5360}$

$5000 + 4010 = \underline{9010}$

Add 1000 to each number on the wheel.



1000 kids are expected to attend the magic show. There will also be 890 adults. How many people will attend the magic show in all?

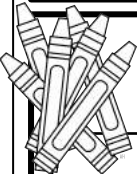
$1000 + 890 = 1890$

1890 people will attend the magic show in all.

MISSING ADDENDS

Use any of the strategies that you have learned so far to solve the equations below.

$\begin{array}{c} \boxed{1281} \\ \swarrow \quad \searrow \\ \boxed{1278} \quad \boxed{3} \end{array}$	$\begin{array}{c} \boxed{3009} \\ \swarrow \quad \searrow \\ \boxed{0} \quad \boxed{3009} \end{array}$	$\begin{array}{c} \boxed{9000} \\ \swarrow \quad \searrow \\ \boxed{5000} \quad \boxed{4000} \end{array}$	$\begin{array}{c} \boxed{8000} \\ \swarrow \quad \searrow \\ \boxed{1000} \quad \boxed{7000} \end{array}$
$\begin{array}{c} \boxed{9689} \\ \swarrow \quad \searrow \\ \boxed{9189} \quad \boxed{500} \end{array}$	$\begin{array}{c} \boxed{1700} \\ \swarrow \quad \searrow \\ \boxed{800} \quad \boxed{900} \end{array}$	$\begin{array}{c} \boxed{1800} \\ \swarrow \quad \searrow \\ \boxed{900} \quad \boxed{900} \end{array}$	$\begin{array}{c} \boxed{357} \\ \swarrow \quad \searrow \\ \boxed{348} \quad \boxed{9} \end{array}$
$\begin{array}{c} \boxed{100} \\ \swarrow \quad \searrow \\ \boxed{70} \quad \boxed{30} \end{array}$	$\begin{array}{c} \boxed{1723} \\ \swarrow \quad \searrow \\ \boxed{923} \quad \boxed{800} \end{array}$	$\begin{array}{c} \boxed{3487} \\ \swarrow \quad \searrow \\ \boxed{3387} \quad \boxed{100} \end{array}$	$\begin{array}{c} \boxed{4356} \\ \swarrow \quad \searrow \\ \boxed{2000} \quad \boxed{2356} \end{array}$



8789	7500	1410	338
100	1400	1500	999
4290	680	7789	100
4209	700	500	209
1000	2405	690	5000

Find the sums for the equations below. Then shade in the sum on the number chart.

$600+800=$ <u>1400</u>	$327+11=$ <u>338</u>
$70+30=$ <u>100</u>	$4500+3000=$ <u>7500</u>
$2399+6=$ <u>2405</u>	$300+200=$ <u>500</u>
$3000+1290=$ <u>4290</u>	$6789+1000=$ <u>7789</u>
$800+200=$ <u>1000</u>	$650+40=$ <u>690</u>

Write equations for one of the sums that is not shaded yet: _____ + _____ = _____

ANSWERS WILL VARY

Let's Make FRIENDLY NUMBERS

A friendly number is a number that is easy to work with. Numbers that end in 0, such as 10, 20, 30, 100, 120, 190, and 200 and are friendly numbers. Let's try making some friendly numbers:

208

I can make this into the friendly number 210 by adding 2.

455

I can make this into the friendly number 460 by adding 5.

35

I can make this into the friendly number 40 by adding 5.

1579

I can make this into the friendly number 1580 by adding 1.

506

I can make this into the friendly number 510 by adding 4.

2245

I can make this into the friendly number 2250 by adding 5.

513

I can make this into the friendly number 520 by adding 7.

1177

I can make this into the friendly number 1180 by adding 3.

998

I can make this into the friendly number 1000 by adding 2.

7645

I can make this into the friendly number 7650 by adding 5.

1299

I can make this into the friendly number 1300 by adding 1.

64

I can make this into the friendly number 70 by adding 6.

146

I can make this into the friendly number 150 by adding 4.

104

I can make this into the friendly number 110 by adding 6.

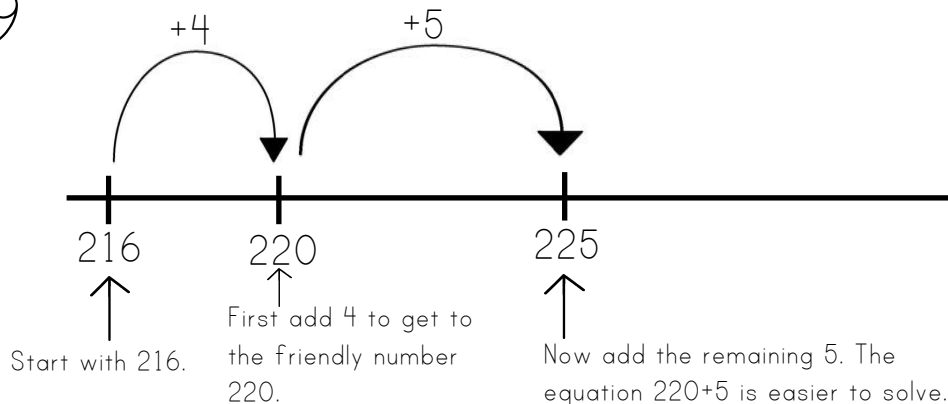
347

I can make this into the friendly number 350 by adding 3.

Using Friendly Numbers to Add Multi-Digit Numbers

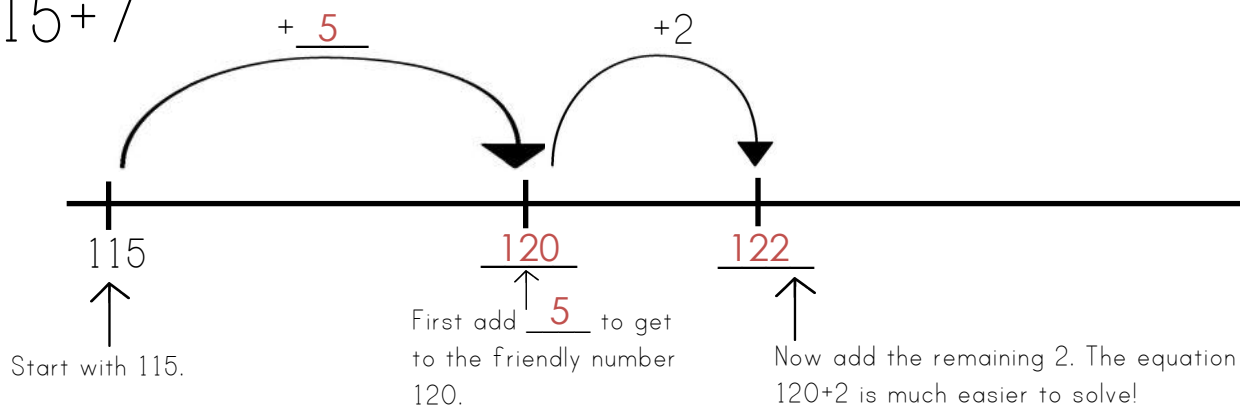
We can use friendly numbers to make it easier to add two numbers. Take a look!

$$216 + 9$$

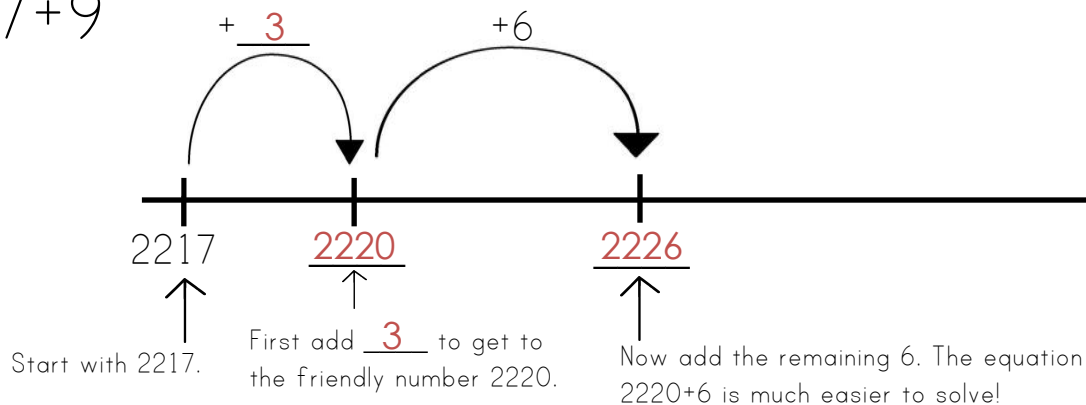


Now you try!

$$115 + 7$$



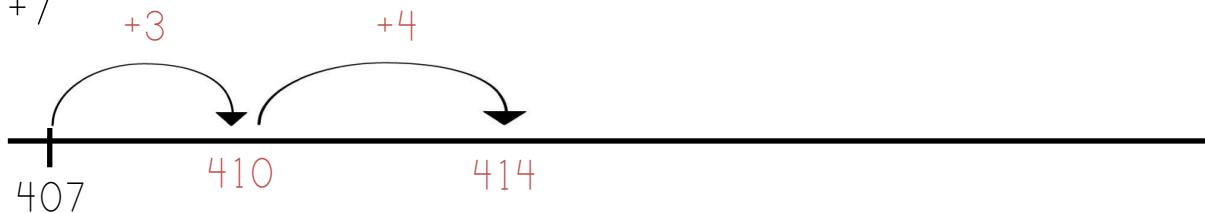
$$2217 + 9$$



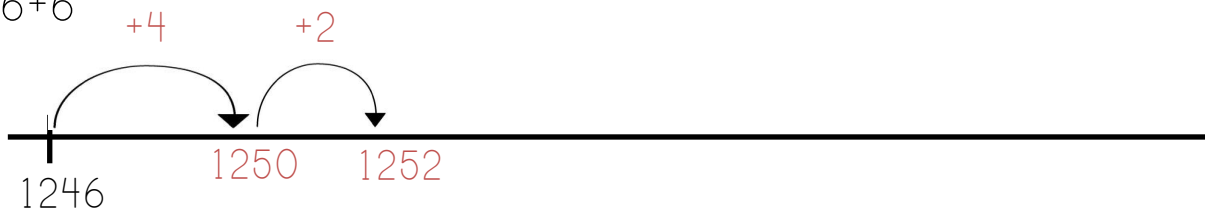
Practicing With
FRIENDLY NUMBERS

Use the empty number lines to solve each equation. Remember to jump to a friendly number first, and then complete the equation.

$407+7$



$1246+6$



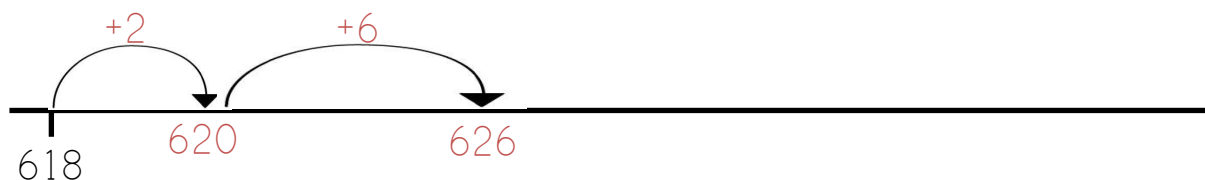
$967+5$



$1925+9$



$618+8$



Let's Make **FRIENDLY NUMBERS**

Solve the equations below. If you need to draw yourself a number line, make a small one in the box. If you can use the "friendly number" strategy in your head without the number line, go ahead!

$$1217+4= \underline{1221}$$

$$278+6= \underline{284}$$

$$1582+9= \underline{1591}$$

$$118+6= \underline{124}$$

$$456+6= \underline{462}$$

$$736+8= \underline{744}$$

$$545+9= \underline{554}$$

$$207+7= \underline{214}$$

$$1259+6= \underline{1265}$$

$$5896+5= \underline{5901}$$

$$4008+7= \underline{4015}$$

$$577+7= \underline{584}$$

Putting It All Together

Use any of the strategies that you have learned so far.

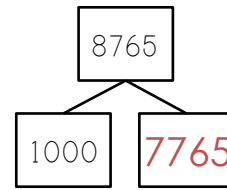
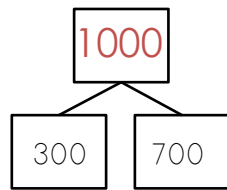
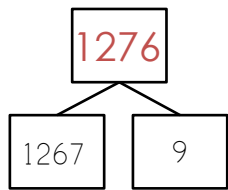
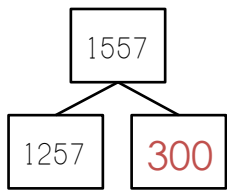
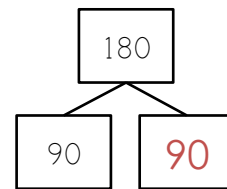
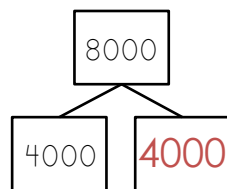
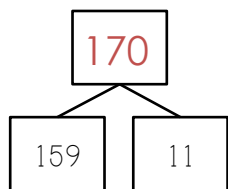
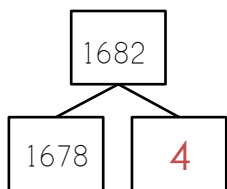
+1000		+100		+9	
2315	3315	3249	3349	48	57
8760	9760	146	246	118	127
8000	9000	2572	2672	369	378
1179	2179	144	244	78	87
2541	3541	7769	7869	377	386
6090	7090	9876	9976	219	228

Write 5 equations that equal 1000:

Answers will vary. Ask the teacher to check your equations.

_____ + _____ = 1000

Fill in the missing numbers.



Write the sum.

$4000 + 4000 = 8000$

$60 + 40 = 100$

$1000 + 3000 = 4000$

$600 + 400 = 1000$

$5698 + 3000 = 8698$

$500 + 100 = 600$

$2625 + 300 = 2925$

$1257 + 8 = 1265$

$1780 + 200 = 1980$

$500 + 500 = 1000$

$0 + 8509 = 8509$

$700 + 700 = 1400$

$6798 + 5 = 6803$

$4908 + 80 = 4988$

$800 + 200 = 1000$

$7000 + 1000 = 8000$

$4448 + 50 = 4498$

$6000 + 3000 = 9000$



ANSWER KEY Recording Sheet

Record the addends and sum for each equation.

Your answers will be in a different order.

Addend	Addend	Sum
700	100	800
3000	1000	4000
2899	2	2901
6000	2000	8000
6707	3	6710
4000	3000	7000
11	11	22
600	600	1200
600	700	1300
2000	3000	5000
12	14	26
500	700	1200

Addend	Addend	Sum
900	100	1000
1665	30	1695
2742	200	2942
1905	200	2105
258	7	265
47	6	53
169	6	175
2244	4000	6244
6090	2000	8090
136	9	145
256	5	261
1247	9	1256

Decomposing Numbers

Decompose each number into thousands, hundreds, tens, and ones.

3672	Th	H	T	O
	3	6	7	2

9082	Th	H	T	O
	9	0	8	2

1572	Th	H	T	O
	1	5	7	2

3115	Th	H	T	O
	3	1	1	5

9075	Th	H	T	O
	9	0	7	5

3577	Th	H	T	O
	3	5	7	7

8868	Th	H	T	O
	8	8	6	8

745	Th	H	T	O
		7	4	5

9001	Th	H	T	O
	9	0	0	1

$$2841 = \underline{2000} + \underline{800} + \underline{40} + \underline{1}$$

$$9068 = \underline{9000} + \underline{0} + \underline{60} + \underline{8}$$

$$2524 = \underline{2000} + \underline{500} + \underline{20} + \underline{4}$$

$$1172 = \underline{1000} + \underline{100} + \underline{70} + \underline{2}$$

$$7401 = \underline{7000} + \underline{400} + \underline{0} + \underline{1}$$

$$2213 = \underline{2000} + \underline{200} + \underline{10} + \underline{3}$$

$$8465 = \underline{8000} + \underline{400} + \underline{60} + \underline{5}$$

$$1111 = \underline{1000} + \underline{100} + \underline{10} + \underline{1}$$

Write any 4-digit number and then decompose it:

Answers will vary.
Ask your teacher to check the answer.

Compose:

$$2000 + 400 + 10 + 9 = \underline{2419}$$

$$8000 + 100 + 60 + 4 = \underline{8164}$$

$$6000 + 400 + 20 + 5 = \underline{6425}$$

$$4000 + 100 + 4 = \underline{4104}$$

$$7000 + 200 + 60 = \underline{7260}$$

$$3000 + 400 + 20 + 5 = \underline{3425}$$

$$9000 + 100 + 40 + 4 = \underline{9144}$$

$$800 + 80 + 6 = \underline{886}$$

$$5000 + 10 + 4 = \underline{5014}$$

LEFT-TO-RIGHT

When we add two 2-digit numbers, we can make it easier by adding the tens first, and then the ones. Take a look!

$$62+25$$

$$\text{First add the tens: } \underline{60} + \underline{20} = \underline{80}$$

$$\text{Then add the ones: } \underline{2} + \underline{5} = \underline{7}$$

$$\text{Then add the tens and ones together: } \underline{80} + \underline{7} = \underline{87}$$

$$35+24$$

$$\text{First add the tens: } \underline{30} + \underline{20} = \underline{50}$$

$$\text{Then add the ones: } \underline{5} + \underline{4} = \underline{9}$$

$$\text{Then add the tens and ones together: } \underline{50} + \underline{9} = \underline{59}$$

$$75+23$$

$$\text{First add the tens: } \underline{70} + \underline{20} = \underline{90}$$

$$\text{Then add the ones: } \underline{5} + \underline{3} = \underline{8}$$

$$\text{Then add the tens and ones together: } \underline{90} + \underline{8} = \underline{98}$$

Jack has \$64.00 and Glen has \$33.00. How many dollars do they have altogether?

Show your work:

$$\underline{\$64} + \underline{\$33} = \underline{\$97.00}$$

Altogether, they have \$97.00.

To add 3-digit numbers, we use the same process, except we add the hundreds first. Take a look!

$$253+416$$

$$\text{First add the hundreds: } \underline{200} + \underline{400} = \underline{600}$$

$$\text{Then add the tens: } \underline{50} + \underline{10} = \underline{60}$$

$$\text{Then add the ones: } \underline{3} + \underline{6} = \underline{9}$$

$$\text{Then add the hundreds, tens and ones together: } \underline{600} + \underline{60} + \underline{9} = \underline{669}$$

$$127+542$$

$$\text{First add the hundreds: } \underline{100} + \underline{500} = \underline{600}$$

$$\text{Then add the tens: } \underline{20} + \underline{40} = \underline{60}$$

$$\text{Then add the ones: } \underline{7} + \underline{2} = \underline{9}$$

$$\text{Lastly, add the hundreds, tens and ones together: } \underline{600} + \underline{60} + \underline{9} = \underline{669}$$

$$865+134$$

$$\text{First add the hundreds: } \underline{800} + \underline{100} = \underline{900}$$

$$\text{Then add the tens: } \underline{60} + \underline{30} = \underline{90}$$

$$\text{Then add the ones: } \underline{5} + \underline{4} = \underline{9}$$

$$\text{Lastly, add the hundreds, tens and ones together: } \underline{900} + \underline{90} + \underline{9} = \underline{999}$$

LEFT-TO-RIGHT ADDITION

WITH and WITHOUT REGROUPING

Regrouping makes this a bit trickier, but you still follow the same process.

$$45+37$$

First add the tens: $\underline{40} + \underline{30} = \underline{70}$

Then add the ones: $\underline{5} + \underline{7} = \underline{12}$

Lastly, add the tens and ones together:

$$\underline{70} + \underline{12} = \underline{82}$$

$$437+14$$

First add the hundreds: $\underline{400} + \underline{0} = \underline{400}$

Then add the tens: $\underline{30} + \underline{10} = \underline{40}$

Then add the ones: $\underline{7} + \underline{4} = \underline{11}$

Lastly, add the hundreds, tens and ones together:

$$\underline{400} + \underline{40} + \underline{11} = \underline{451}$$

$$54+26$$

First add the tens: $\underline{50} + \underline{20} = \underline{70}$

Then add the ones: $\underline{4} + \underline{6} = \underline{10}$

Lastly, add the tens and ones together:

$$\underline{70} + \underline{10} = \underline{80}$$

$$78+41$$

First add the tens: $\underline{70} + \underline{40} = \underline{110}$

Then add the ones: $\underline{8} + \underline{1} = \underline{9}$

Lastly, add the tens and ones together:

$$\underline{110} + \underline{9} = \underline{119}$$

$$355+125$$

First add the hundreds: $\underline{300} + \underline{100} = \underline{400}$

Then add the tens: $\underline{50} + \underline{20} = \underline{70}$

Then add the ones: $\underline{5} + \underline{5} = \underline{10}$

Lastly, add the hundreds, tens and ones together:

$$\underline{400} + \underline{70} + \underline{10} = \underline{480}$$

$$68+24$$

First add the tens: $\underline{60} + \underline{20} = \underline{80}$

Then add the ones: $\underline{8} + \underline{4} = \underline{12}$

Lastly, add the tens and ones together:

$$\underline{80} + \underline{12} = \underline{92}$$

Solve the problem:

It is 136 kilometers to the gas station. The store is 114 kilometers past the gas station. How many kilometers away is the store?

$$136+114=250$$

The store is 250 kilometers away.

$$236 + 315$$

First add the hundreds: $\underline{200} + \underline{300} = \underline{500}$

Then add the tens: $\underline{30} + \underline{10} = \underline{40}$

Then add the ones: $\underline{6} + \underline{5} = \underline{11}$

Lastly, add the hundreds, tens and ones together:

$$\underline{500} + \underline{40} + \underline{11} = \underline{551}$$

$$807 + 122$$

First add the hundreds: $\underline{800} + \underline{100} = \underline{900}$

Then add the tens: $\underline{0} + \underline{20} = \underline{20}$

Then add the ones: $\underline{7} + \underline{2} = \underline{9}$

Lastly, add the hundreds, tens and ones together:

$$\underline{900} + \underline{20} + \underline{9} = \underline{929}$$

$$575 + 205$$

First add the hundreds: $\underline{500} + \underline{200} = \underline{700}$

Then add the tens: $\underline{70} + \underline{0} = \underline{70}$

Then add the ones: $\underline{5} + \underline{5} = \underline{10}$

Lastly, add the hundreds, tens and ones together:

$$\underline{700} + \underline{70} + \underline{10} = \underline{780}$$

$$355 + 118$$

First add the hundreds: $\underline{300} + \underline{100} = \underline{400}$

Then add the tens: $\underline{50} + \underline{10} = \underline{60}$

Then add the ones: $\underline{5} + \underline{8} = \underline{13}$

Lastly, add the hundreds, tens and ones together:

$$\underline{400} + \underline{60} + \underline{13} = \underline{473}$$

$$450 + 150$$

First add the hundreds: $\underline{400} + \underline{100} = \underline{500}$

Then add the tens: $\underline{50} + \underline{50} = \underline{100}$

Then add the ones: $\underline{0} + \underline{0} = \underline{0}$

Lastly, add the hundreds, tens and ones together:

$$\underline{500} + \underline{100} + \underline{0} = \underline{600}$$

$$831 + 127$$

First add the hundreds: $\underline{800} + \underline{100} = \underline{900}$

Then add the tens: $\underline{30} + \underline{20} = \underline{50}$

Then add the ones: $\underline{1} + \underline{7} = \underline{8}$

Lastly, add the hundreds, tens and ones together:

$$\underline{900} + \underline{50} + \underline{8} = \underline{958}$$

$$648 + 125$$

First add the hundreds: $\underline{600} + \underline{100} = \underline{700}$

Then add the tens: $\underline{40} + \underline{20} = \underline{60}$

Then add the ones: $\underline{8} + \underline{5} = \underline{13}$

Lastly, add the hundreds, tens and ones together:

$$\underline{700} + \underline{60} + \underline{13} = \underline{773}$$

$$257 + 264$$

First add the hundreds: $\underline{200} + \underline{200} = \underline{400}$

Then add the tens: $\underline{50} + \underline{60} = \underline{110}$

Then add the ones: $\underline{7} + \underline{4} = \underline{11}$

Lastly, add the hundreds, tens and ones together:

$$\underline{400} + \underline{110} + \underline{11} = \underline{521}$$

Write any 3-digit + 3-digit equation and solve it using left-to-right addition.

ANSWERS WILL VARY. ASK YOUR TEACHER TO CHECK THIS EQUATION.

LEFT-TO-RIGHT *with thousands*

Now that you know how to add 3-digit numbers using left-to-right addition, adding 4-digit numbers is easy! Just use the exact same process.

$$3471 + 1329$$

$$\text{First add the thousands: } \underline{3000} + \underline{1000} = \underline{4000}$$

$$\text{Then add the hundreds: } \underline{400} + \underline{300} = \underline{700}$$

$$\text{Then add the tens: } \underline{70} + \underline{20} = \underline{90}$$

$$\text{Then add the ones: } \underline{1} + \underline{9} = \underline{10}$$

$$\text{Then add the thousands, hundreds, tens and ones together: } \underline{4000} + \underline{700} + \underline{90} + \underline{10} = \underline{4800}$$

Now it's your turn!

$$2825 + 1174$$

$$\text{First add the thousands: } \underline{2000} + \underline{1000} = \underline{3000}$$

$$\text{Then add the hundreds: } \underline{800} + \underline{100} = \underline{900}$$

$$\text{Then add the tens: } \underline{20} + \underline{70} = \underline{90}$$

$$\text{Then add the ones: } \underline{5} + \underline{4} = \underline{9}$$

$$\text{Then add everything together: } \underline{3000} + \underline{900} + \underline{90} + \underline{9} = \underline{3999}$$

$$1027 + 2244$$

$$\text{First add the thousands: } \underline{1000} + \underline{2000} = \underline{3000}$$

$$\text{Then add the hundreds: } \underline{0} + \underline{200} = \underline{200}$$

$$\text{Then add the tens: } \underline{20} + \underline{40} = \underline{60}$$

$$\text{Then add the ones: } \underline{7} + \underline{4} = \underline{11}$$

$$\text{Then add everything together: } \underline{3000} + \underline{200} + \underline{60} + \underline{11} = \underline{3271}$$

$$1234 + 2345$$

$$\text{First add the thousands: } \underline{1000} + \underline{2000} = \underline{3000}$$

$$\text{Then add the hundreds: } \underline{200} + \underline{300} = \underline{500}$$

$$\text{Then add the tens: } \underline{30} + \underline{40} = \underline{70}$$

$$\text{Then add the ones: } \underline{4} + \underline{5} = \underline{9}$$

$$\text{Then add everything together: } \underline{3000} + \underline{500} + \underline{70} + \underline{9} = \underline{3579}$$

Let's Practice Left-to-Right Addition

$3236+1432= \underline{4668}$

$435+425= \underline{860}$

$687+121= \underline{808}$

$9085+606= \underline{9691}$

$1287+1801= \underline{3088}$

$2421+4713= \underline{7134}$

$5033+1234= \underline{6267}$

$5412+2327= \underline{7739}$

$5563+4014= \underline{9577}$

$753+135= \underline{888}$

$246+270= \underline{516}$

$987+101= \underline{1088}$

$7518+1241= \underline{8759}$

$4472+2216= \underline{6688}$

$340+219= \underline{559}$

In January and February, there are 1416 hours altogether. In March and April there are 1488 hours altogether. In all, how many hours are there in January, February, March and April?

Show your work.

$1416+1488=2904$

Write an answer sentence.

There are 2904 hours
altogether in
January, February,
March, and April.

When I add from left to right, I have to remember to

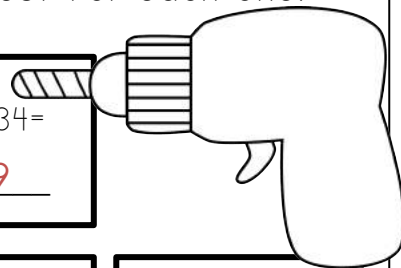
Answers will vary.

The hardest part of left-to-right addition is _____

Answers will vary.

LET'S ADD IT UP!

Solve the equations. Use the strategy that works best for each one.



$$500+700=$$

$$\underline{1200}$$

$$3492+11=$$

$$\underline{3503}$$

$$2451+20=$$

$$\underline{2471}$$

$$235+234=$$

$$\underline{469}$$

$$4000+4000=$$

$$\underline{8000}$$

$$400+600=$$

$$\underline{1000}$$

$$3000+6000=$$

$$\underline{9000}$$

$$800+800=$$

$$\underline{1600}$$

$$1791+3204=$$

$$\underline{4995}$$

$$4452+2=$$

$$\underline{4454}$$

$$2708+3262=$$

$$\underline{5970}$$

$$800+300=$$

$$\underline{1100}$$

$$3257+0=$$

$$\underline{3257}$$

$$5000+4000=$$

$$\underline{9000}$$

$$257+7=$$

$$\underline{264}$$

$$3512+60=$$

$$\underline{3572}$$

$$187+431=$$

$$\underline{618}$$

$$2005+2005=$$

$$\underline{4010}$$

$$5490+400=$$

$$\underline{5890}$$

$$2000+7000=$$

$$\underline{9000}$$

$$0+1230=$$

$$\underline{1230}$$

$$100+600=$$

$$\underline{700}$$

$$500+500=$$

$$\underline{1000}$$

$$300+200=$$

$$\underline{500}$$

$$3254+16=$$

$$\underline{3270}$$

$$4899+3=$$

$$\underline{4902}$$

$$469+11=$$

$$\underline{480}$$

$$1000+3682=$$

$$\underline{4682}$$

$$38+43=$$

$$\underline{81}$$

$$70+90=$$

$$\underline{160}$$

$$200+800=$$

$$\underline{1000}$$

$$1358+6=$$

$$\underline{1364}$$

$$187+102=$$

$$\underline{289}$$

$$5000+3000=$$

$$\underline{8000}$$

$$70+30=$$

$$\underline{100}$$

TOOLS

BREAK IT UP!

Another way to add two 2-digit numbers is to break the second number into 2 parts.

$$\begin{array}{c}
 25+22 \\
 \swarrow \searrow \\
 20 \quad 2
 \end{array}
 \quad \leftarrow \quad
 \begin{array}{l}
 22 \text{ can be broken up into a} \\
 \text{"20" and a "2."}
 \end{array}$$

Step #1: Break the second number into tens and ones. In this example, 22 is broken into 20 and 2.

Step #2: Add the 1st addend (25) to the 20. $25+20=45$

Step #3: Now add the 2 ones. $45+2=47$

Now it's your turn!

$$\begin{array}{c}
 32+16 \\
 \swarrow \searrow \\
 \boxed{10} \quad \boxed{6}
 \end{array}
 \quad \leftarrow \quad
 \begin{array}{l}
 \text{Break the 16 up into a} \\
 \underline{10} \text{ and a } \underline{6}
 \end{array}$$

Step #1: Break the 16 into tens and ones.

Step #2: Add the 1st addend (32) to the 10. $32+10=\underline{42}$

Step #3: Now add the ones. $42+6=\underline{48}$

$$\begin{array}{c}
 13+14 \\
 \swarrow \searrow \\
 \boxed{10} \quad \boxed{4}
 \end{array}
 \quad \leftarrow \quad
 \begin{array}{l}
 \text{Break the 14 up into a} \\
 \underline{10} \text{ and a } \underline{4}
 \end{array}$$

Step #1: Break the 14 into tens and ones.

Step #2: Add the 1st addend (13) to the 10. $13+10=\underline{23}$

Step #3: Now add the ones. $23+4=\underline{27}$

$$\begin{array}{c}
 27+31 \\
 \swarrow \searrow \\
 \boxed{30} \quad \boxed{1}
 \end{array}$$

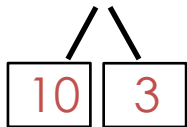
Show your work here:

$$27+30=57$$

$$57+1=58$$

LET'S KEEP PRACTICING!

$45+13$



Show your work here:

$45+10=55$

$55+3=58$

$24+24$



Show your work here:

$24+20=44$

$44+4=48$

$63+25$

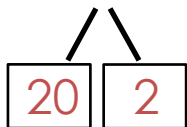


Show your work here:

$63+20=83$

$83+5=88$

$50+22$

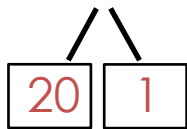


Show your work here:

$50+20=70$

$70+2=72$

$15+21$

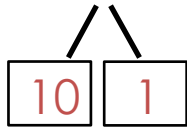


Show your work here:

$15+20=35$

$35+1=36$

$87+11$



Show your work here:

$87+10=97$

$97+1=98$

BREAKING UP BIGGER NUMBERS!

You can break up bigger numbers in the exact same way. Break them up in a way that works for YOU! Here are a couple of examples:

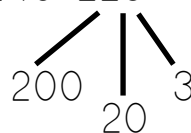
$$146 + 223$$



223 can be broken up into a "200" and a "23."

OR

$$146 + 223$$



223 can be broken up into a "200," a "20," and a "3."

Solve it:

$$146 + 200 = \underline{346}$$

$$346 + 23 = \underline{369}$$

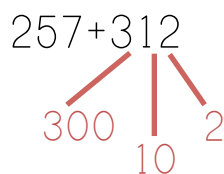
Solve it:

$$146 + 200 = \underline{346}$$

$$346 + 20 = \underline{366}$$

$$366 + 3 = \underline{369}$$

Now it's your turn! Break the second number into 2 or 3 parts - whichever works best for you. Use the white space to show your work.

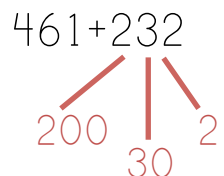


Solve it:

$$257 + 300 = \underline{557}$$

$$557 + 10 = \underline{567}$$

$$567 + 2 = \underline{569}$$

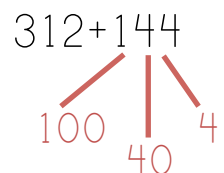


Solve it:

$$461 + 200 = \underline{661}$$

$$661 + 30 = \underline{691}$$

$$691 + 2 = \underline{693}$$



Solve it:

$$312 + 100 = \underline{412}$$

$$412 + 40 = \underline{452}$$

$$452 + 4 = \underline{456}$$

LET'S KEEP PRACTICING!

$$382 + 317$$

Solve it:

$$382 + 300 = \underline{682}$$

$$682 + 10 = \underline{692}$$

$$692 + 7 = \underline{699}$$

$$245 + 224$$

Solve it:

$$245 + 200 = \underline{445}$$

$$445 + 20 = \underline{465}$$

$$465 + 4 = \underline{469}$$

$$605 + 322$$

Solve it:

$$605 + 300 = \underline{905}$$

$$905 + 20 = \underline{925}$$

$$925 + 2 = \underline{927}$$

$$861 + 35$$

Solve it:

$$861 + 30 = \underline{891}$$

$$891 + 5 = \underline{896}$$

$$156 + 533$$

Solve it:

$$156 + 500 = \underline{656}$$

$$656 + 30 = \underline{686}$$

$$686 + 3 = \underline{689}$$

$$575 + 323$$

Solve it:

$$575 + 300 = \underline{875}$$

$$875 + 20 = \underline{895}$$

$$895 + 3 = \underline{898}$$

BREAK IT UP!

Use the "break up the second number" strategy to solve the equations. If the sum is odd, shade the pencil yellow. If the sum is even, shade the pencil blue.

YELLOW

$$\begin{array}{r} 145+230= \\ \underline{\quad} \\ 375 \end{array}$$

BLUE

$$\begin{array}{r} 347+243= \\ \underline{\quad} \\ 590 \end{array}$$

BLUE

$$\begin{array}{r} 35+25= \\ \underline{\quad} \\ 60 \end{array}$$

BLUE

$$\begin{array}{r} 267+251= \\ \underline{\quad} \\ 518 \end{array}$$

YELLOW

$$\begin{array}{r} 593+108= \\ \underline{\quad} \\ 701 \end{array}$$

YELLOW

$$\begin{array}{r} 365+224= \\ \underline{\quad} \\ 589 \end{array}$$

YELLOW

$$\begin{array}{r} 68+23= \\ \underline{\quad} \\ 91 \end{array}$$

BLUE

$$\begin{array}{r} 740+158= \\ \underline{\quad} \\ 898 \end{array}$$

YELLOW

$$\begin{array}{r} 355+254= \\ \underline{\quad} \\ 609 \end{array}$$

BLUE

$$\begin{array}{r} 498+212= \\ \underline{\quad} \\ 710 \end{array}$$

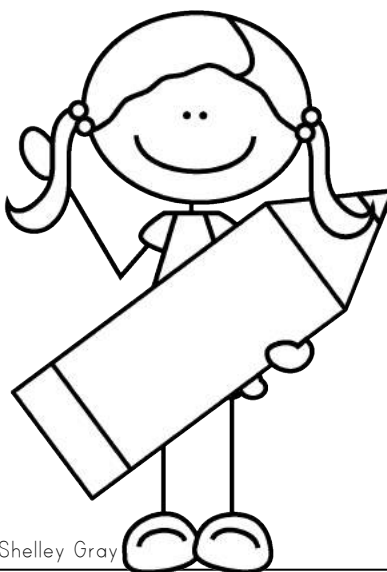
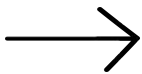
BLUE

$$\begin{array}{r} 502+246= \\ \underline{\quad} \\ 748 \end{array}$$

YELLOW

$$\begin{array}{r} 400+369= \\ \underline{\quad} \\ 769 \end{array}$$

Let's try some
BIGGER
numbers!



YELLOW

$$\begin{array}{r} 1243+442= \\ \underline{\quad} \\ 1685 \end{array}$$

YELLOW

$$\begin{array}{r} 7590+1203= \\ \underline{\quad} \\ 8793 \end{array}$$

YELLOW

$$\begin{array}{r} 3525+1434= \\ \underline{\quad} \\ 4959 \end{array}$$

BLUE

$$\begin{array}{r} 5520+2236= \\ \underline{\quad} \\ 7756 \end{array}$$

BLUE

$$\begin{array}{r} 3481+1311= \\ \underline{\quad} \\ 4792 \end{array}$$

BLUE

$$\begin{array}{r} 1713+1247= \\ \underline{\quad} \\ 2960 \end{array}$$

YELLOW

$$\begin{array}{r} 3419+3400= \\ \underline{\quad} \\ 6819 \end{array}$$

YELLOW

$$\begin{array}{r} 2430+6219= \\ \underline{\quad} \\ 8649 \end{array}$$

Choose the Best STRATEGY

Let's compare left-to-right addition to the "breaking up the second number" strategy. Which one is the most effective and efficient?

Solve this equation using left-to-right addition:
145+214

Add the hundreds: $100+200=300$

Add the tens: $40+10=50$

Add the ones: $5+4=9$

Add it all up: $300+50+9=359$

Solve this equation by breaking up the second number: 145+214

Break up the second number and add it to the 145:

$145+200=345$

$345+14=359$

Which strategy worked best for you?

ANSWERS WILL VARY.

Solve this equation using left-to-right addition:
1147+2462

Show your work: $1000+2000=3000$

$100+400=500$

$40+60=100$

$7+2=9$

$3000+500+100+9=3609$

Solve this equation by breaking up the second number: 1147+2462

$1147+2000=3147$

$3147+400=3547$

$3547+60=3607$

$3607+2=3609$

Which strategy worked best for you?

ANSWERS WILL VARY.

Solve this equation using left-to-right addition:
38+46

$30+40=70$

$8+6=14$

$70+14=84$

Solve this equation by breaking up the second number: 38+46

$38+40=78$

$78+6=84$

Which strategy worked best for you?

ANSWERS WILL VARY.

Putting IT ALL Together

Use any of the strategies that you have learned so far to complete these activities.

Write a greater than (>), less than (<), or equal sign (=).

$300+500 > 458+12$

$4457+1152 > 4509+1000$

$3121+4107 > 3000+3000$

$235+413 = 324+324$

$234+245 < 300+200$

$5381+2500 > 3000+3000$

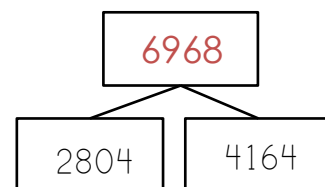
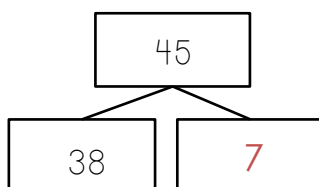
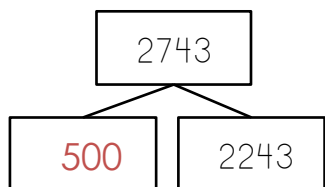
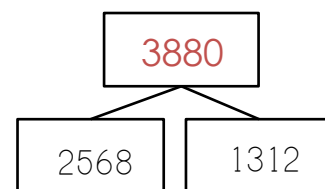
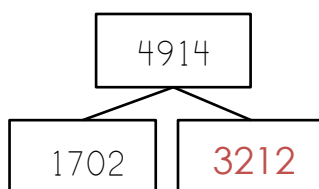
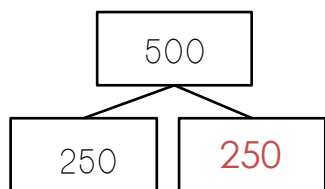
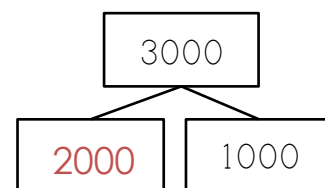
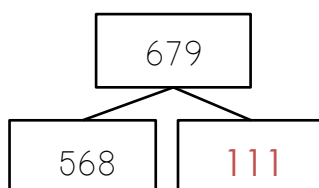
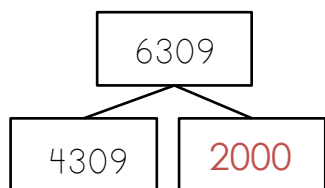
$600+400 = 700+300$

$4000+6000 = 8000+2000$

$47+43 > 28+58$

$548+9 < 460+100$

Fill in the missing number in each equation. Use any of the strategies that you have learned so far.



LEARNING TO COMPENSATE

Another way to add multi-digit numbers is to adjust one number to make it easier. Take a look:

$$34+49 \longrightarrow 34+50 \longrightarrow 84 \longrightarrow -1 \longrightarrow 83$$

Let's add 1 to the 49 to make this equation easier to solve.

$34+50$ is an easier equation to solve.

The sum is 84.

BUT WAIT! Since we added one to the addend, we now need to take 1 away from the sum to compensate for that adjustment.

The sum is 83.

Here's another example:

$$23+36 \longrightarrow 23+40 \longrightarrow 63 \longrightarrow -4 \longrightarrow 59$$

Let's add 4 to the 36 to make the friendly number "40."

$23+40$ is an easier equation to solve.

The sum is 63.

BUT WAIT! Since we added 4 to the addend, we now need to take 4 away from the sum to compensate for that adjustment.

The sum is 59.

Now you try it:

$$54+27 \longrightarrow 54+\underline{30} \longrightarrow \underline{84} \longrightarrow -\underline{3} \longrightarrow \underline{81}$$

I can make the 27 into a friendly number by adding 3.

This is an easier equation to solve!

Here is the sum.

BUT WAIT! Since I added 3 to the addend, I now need to take 3 away from the sum.

The sum is 81.

$$36+18 \longrightarrow 36+\underline{20} \longrightarrow \underline{56} \longrightarrow -\underline{2} \longrightarrow \underline{54}$$

I can make the 18 into a friendly number by adding 2.

This is an easier equation to solve!

Here is the sum.

BUT WAIT! Since I added 2 to the addend, I now need to take 2 away from the sum.

The sum is 54.

LET'S KEEP PRACTICING!

You can also adjust an addend by SUBTRACTING to make a friendly number. Try it here!

$38+23 \longrightarrow 38+\underline{20} \longrightarrow \underline{58} \longrightarrow +\underline{61} \longrightarrow \underline{61}$

I can make the 23 into a friendly number by SUBTRACTING 3.
 This is an easier equation to solve!
 Here is the sum.
 BUT WAIT! Since I SUBTRACTED 3 from the addend, I now need to add 3 to the sum.
 The sum is 61.

$83+18 \longrightarrow 83+\underline{20} \longrightarrow \underline{103} \longrightarrow -\underline{2} \longrightarrow \underline{101}$

I can make the 18 into a friendly number by adding 2.
 This is an easier equation to solve!
 Here is the sum.
 BUT WAIT! Since I added 2 to the addend, I now need to take 2 away from the sum.
 The sum is 101.

$46+25 \longrightarrow 25+\underline{50} \longrightarrow \underline{75} \longrightarrow -\underline{4} \longrightarrow \underline{71}$

I can make the 46 into a friendly number by adding 4.
 This is an easier equation to solve!
 Here is the sum.
 BUT WAIT! Since I added 4 to the addend, I now need to take 4 away from the sum.
 The sum is 71.

$91+22 \longrightarrow 91+\underline{20} \longrightarrow \underline{111} \longrightarrow +\underline{2} \longrightarrow \underline{113}$

I can make the 22 into a friendly number by SUBTRACTING 2.
 This is an easier equation to solve!
 Here is the sum.
 BUT WAIT! Since I SUBTRACTED 2 from the addend, I now need to ADD 2 to the sum.
 The sum is 113.

$128+38 \longrightarrow 128+\underline{40} \longrightarrow \underline{168} \longrightarrow -\underline{2} \longrightarrow \underline{166}$

I can make the 38 into a friendly number by adding 2.
 This is an easier equation to solve!
 Here is the sum.
 BUT WAIT! Since I added 2 to the addend, I now need to take 2 away from the sum.
 The sum is 166.

Let's Practice

COMPENSATING

Solve the equations below. Try using the compensation strategy in your head. If you still need to write your work down, then use the white space inside each box.

$$345 + 28 = \underline{373}$$

$$56 + 18 = \underline{74}$$

$$38 + 49 = \underline{87}$$

$$122 + 118 = \underline{240}$$

$$63 + 19 = \underline{82}$$

$$256 + 131 = \underline{387}$$

$$381 + 266 = \underline{647}$$

$$46 + 46 = \underline{92}$$

$$121 + 22 = \underline{143}$$

$$483 + 9 = \underline{492}$$

$$55 + 17 = \underline{72}$$

$$15 + 19 = \underline{34}$$

Snowball **COMPENSATION**

Use the compensation strategy to solve the equations below. If you need to write down your "thinking," use a scrap piece of paper.

$$\begin{array}{r} 346+29= \\ \underline{375} \end{array}$$

$$\begin{array}{r} 183+122= \\ \underline{305} \end{array}$$

$$\begin{array}{r} 4707+1219= \\ \underline{5926} \end{array}$$

$$\begin{array}{r} 2573+2219= \\ \underline{4792} \end{array}$$

$$\begin{array}{r} 564+37= \\ \underline{601} \end{array}$$

$$\begin{array}{r} 286+118= \\ \underline{404} \end{array}$$

$$\begin{array}{r} 446+39= \\ \underline{485} \end{array}$$

$$\begin{array}{r} 525+32= \\ \underline{557} \end{array}$$

$$\begin{array}{r} 352+137= \\ \underline{489} \end{array}$$

$$\begin{array}{r} 2051+1107= \\ \underline{3158} \end{array}$$

$$\begin{array}{r} 3012+19= \\ \underline{3031} \end{array}$$

$$\begin{array}{r} 2462+317= \\ \underline{2779} \end{array}$$

$$\begin{array}{r} 2222+48= \\ \underline{2270} \end{array}$$

$$\begin{array}{r} 3740+148= \\ \underline{3888} \end{array}$$

$$\begin{array}{r} 38+48= \\ \underline{86} \end{array}$$

$$\begin{array}{r} 189+26= \\ \underline{215} \end{array}$$

$$\begin{array}{r} 253+212= \\ \underline{465} \end{array}$$

$$\begin{array}{r} 1376+1111= \\ \underline{2487} \end{array}$$

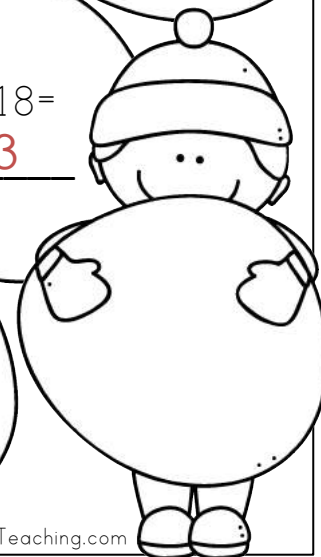
$$\begin{array}{r} 364+218= \\ \underline{582} \end{array}$$

$$\begin{array}{r} 255+18= \\ \underline{273} \end{array}$$

$$\begin{array}{r} 477+22= \\ \underline{499} \end{array}$$

$$\begin{array}{r} 299+8= \\ \underline{307} \end{array}$$

$$\begin{array}{r} 268+29= \\ \underline{297} \end{array}$$



Putting It All Together

ADDITION GRID

Add any two numbers that are touching each other. Then shade the numbers and write the equations below. Use any of the strategies that you have learned so far.

45	9	174	204	2000	3000	1283	213
342	<p>Answers will vary. Please ask your teacher to check your equations.</p>						05
300							98
700							00
3000							00
1903							52
357							19
4088							2000

Example: $357 + 100 = 457$

	+		=	
	+		=	
	+		=	
	+		=	
	+		=	
	+		=	

	+		=	
	+		=	
	+		=	
	+		=	
	+		=	
	+		=	

FINDING COMPATIBLE NUMBERS

When you add more than 2 numbers together, try to look for compatible numbers that make it more efficient to add. Here's an example:

$$19+25+1 \longrightarrow 19+1=20 \longrightarrow 20+25 \longrightarrow 45$$

Let's add the 19 and the 1 first. This will make a friendly

19 and 1 makes the friendly number 20.

Now let's add the last addend: the 25.

The sum is 45.

number!

Now it's your turn!

$$25+17+5 \longrightarrow 25+5=\underline{30} \longrightarrow 30+17 \longrightarrow \underline{47}$$

Let's add the 25 and 5 first. This will make a friendly number!

25 and 5 makes the friendly number 30.

Now let's add the last addend: the 17.

The sum is 47.

$$43+10+90 \longrightarrow 10+90=\underline{100} \longrightarrow 100+43 \longrightarrow \underline{143}$$

Let's add the 10 and 90 first. This will make a friendly number!

10 and 90 makes the friendly number 100.

Now let's add the last addend: the 43.

The sum is 143.

$$108+42+12 \longrightarrow 108+12=\underline{120} \longrightarrow 120+42 \longrightarrow \underline{162}$$

Let's add the 108 and 12 first. This will make a friendly number!

108 and 12 makes the friendly number 120.

Now let's add the last addend: the 42.

The sum is 162.

$$6+34+100 \longrightarrow \underline{6} + \underline{34} = \underline{40} \longrightarrow \underline{40} + \underline{100} \longrightarrow \underline{140}$$

Let's

FIND COMPATIBLE NUMBERS

For each equation, underline the two numbers that can be added to make a friendly number (these are called "compatible numbers.") Add those numbers first, and then add the third addend to find the sum. If you need to write down your thinking, use the white space.

$50+67+50=\underline{167}$

$19+11+25=\underline{55}$

$6+15+34=\underline{55}$

$146+30+70=\underline{246}$

$17+13+12=\underline{42}$

$55+20+20=\underline{95}$

$245+20+60=\underline{325}$

$140+50+8=\underline{198}$

$40+80+30=\underline{150}$

$435+235+5=\underline{675}$

$215+10+5=\underline{230}$

$19+140+1=\underline{160}$

MAKE IT EASIER WITH COMPATIBLE NUMBERS

Solve the equations by adding the compatible numbers first.

$45+100+15= \underline{160}$

$450+150+29= \underline{629}$

$46+56+14= \underline{116}$

$33+7+43= \underline{83}$

$10+12+40= \underline{62}$

$19+24+31= \underline{74}$

$124+90+6= \underline{220}$

$67+122+23= \underline{212}$

$25+13+25= \underline{63}$

Write and solve 8 equations. Make sure that you challenge yourself!

~~Answers will vary. Ask your teacher to check the equations.~~

$\underline{\quad} + \underline{\quad} + \underline{\quad} = \underline{\quad}$

$\underline{\quad} + \underline{\quad} + \underline{\quad} = \underline{\quad}$

$\underline{\quad} + \underline{\quad} + \underline{\quad} = \underline{\quad}$

$\underline{\quad} + \underline{\quad} + \underline{\quad} = \underline{\quad}$

$\underline{\quad} + \underline{\quad} + \underline{\quad} = \underline{\quad}$

$\underline{\quad} + \underline{\quad} + \underline{\quad} = \underline{\quad}$

In Group 1 there are 13 people. In Group 2 there are 14 people. In Group 3 there are 16 people. How many people are in Groups 1, 2, and 3 altogether?

$13+14+16=43$

There are 43 people altogether.

Two kids had a lemonade stand. On Friday they sold 28 cups of lemonade. On Saturday they sold 32 cups of lemonade. On Sunday they only sold 9 cups. How many cups of lemonade did they sell in all?

$28+32+9=69$

They sold 69 cups of lemonade in all.

List 6 sets of compatible numbers (numbers that can be added to make a friendly number).

~~Answers will vary. Ask your teacher to check the equations.~~

Putting IT ALL Together

Use any of the strategies that you have learned so far to complete these activities.

TRUE AND FALSE

Circle the equations that are true. Draw a rectangle around the equations that are false.

$4567+3000=7567$

$567+29=596$

$357+11=368$

$60+800=140$

$3000+5000=7000$

$25+10+15=50$

$325+413=738$

$1248+1451=2559$

$58+6=63$

$416+200+300=816$

$2000+2324=3324$

$400+600=1000$

Fill in the missing number for each equation. Use any of the strategies that you have learned so far.

5579

2467

3112

208

28

100

80

5000

4000

1000

83

48

12

23

5798

4598

1200

1000

600

400

1000

8707

740

1345

7362

325

415

Answers will vary. Ask your teacher to check the equation.

Equation Hunt

Add up any two numbers that are touching. Shade them in and write the equation (with the sum) in the box.

60	4000	245	20	2387	1190	2201	4500	400	340
2000	1000	974	243	1080	2511	500	400	90	330
755									000
2774									000
5122									55

Answers will vary. Please ask your teacher to check your equations.

2000+

226+19

_____ + _____ = _____

_____ + _____ = _____

_____ + _____ = _____

_____ + _____ = _____

_____ + _____ = _____

_____ + _____ = _____

_____ + _____ = _____

_____ + _____ = _____

_____ + _____ = _____

_____ + _____ = _____

_____ + _____ = _____

_____ + _____ = _____

_____ + _____ = _____

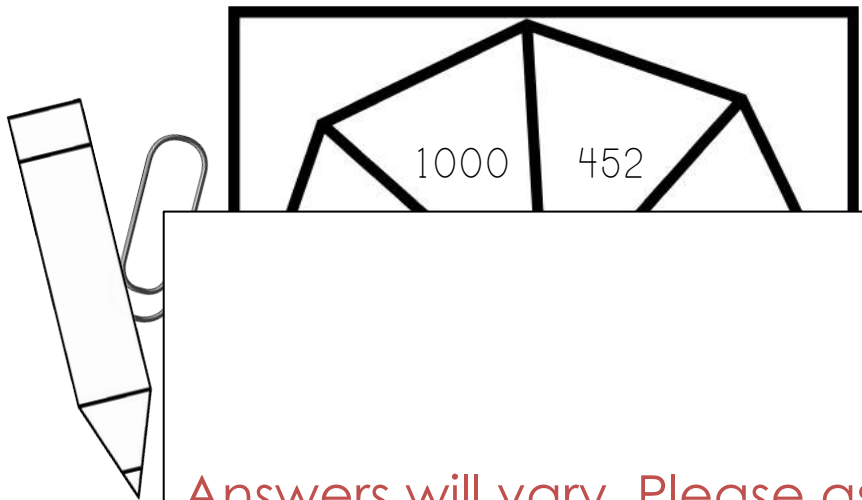
_____ + _____ = _____

_____ + _____ = _____

_____ + _____ = _____

Add It Up!

Use a paper clip and pencil to spin a number on the spinner. Then write it in any equation below and find the sum.



150+ _____ = _____

2000+ _____ = _____

Answers will vary. Please ask your teacher to check your equations.

1482+ _____

3000+ _____

600+ _____ = _____

2500+ _____ = _____

533+ _____ = _____

Write any equation and represent it on the number line below:

_____ + _____ = _____

+

Problem-Solving

Trent's farm has been around for 3 generations. Trent's grandpa farmed the land for 45 years. Trent's dad farmed the land for 35 years. Trent has been farming it for 13 years. In all, how many years has Trent's farm been around for?

Show your work.

$$45+35+13=93$$

Write an answer sentence.

Trent's farm has been around for 93 years.

In 2012, 4678 people visited the museum. In 2013, 2000 more visited than in 2012. In 2014, 1000 more people visited the museum than in 2013. How many people visited the museum in 2014?

Show your work.

$$\begin{aligned} 2012: & \underline{4678} \\ 2013: & 4678+2000=\underline{6678} \\ 2014: & 6678+1000=\underline{7678} \end{aligned}$$

Write an answer sentence.

In 2014, 7678 people visited the museum.

1243 people live in the apartment building. 49 more people move in. Now how many people live in the apartment building?

Show your work.

$$1243+49=1292$$

Write an answer sentence.

1292 people live in the apartment building.

Let's Reflect

Think about all of the strategies that you have learned in The Addition Station:

Write an example of an equation that is really EASY for you: _____

Why is this equation so easy to solve? _____

Write an e

Why is thi

List 4 jobs

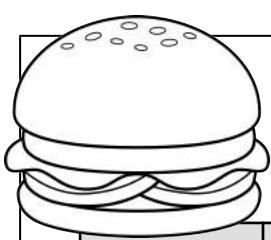
Describe a

Answers will vary. Please ask your teacher
to check your answers.

Write as many equations as you can in this box. Circle the ones that are difficult to solve.

Recording Sheet

Your answers will be in a different order.



Addend	Addend	Sum
4994	0	4994
500	100	600
2000	1000	3000
900	200	1100
5000	2000	7000
400	300	700
300	300	600
4000	5000	9000
600	800	1400
30	70	100
600	400	1000
1757	20	1777
2323	70	2393
4450	20	4470
3113	300	3413
4588	400	4988

Addend	Addend	Sum
167	6	173
1339	8	1347
2224	2000	4224
7654	1000	8654
325	9	334
1176	6	1182
134	255	389
565	215	780
1234	1234	2468
2202	3483	5685
484	15	499
3555	220	3775
1902	1010	2912
287	404	691

Addend	Addend	Addend	Sum
90	34	20	144
35	18	22	75