

# Patterns in Adding

Separate.

Write the number in different ways.

●   ● ● ● ● ●	$6 = 1 + \underline{5}$
● ●   ● ● ● ●	$6 = 2 + \underline{4}$
● ● ●   ● ● ●	$6 = 3 + \underline{3}$

● ● ● ● ● ● ● ● ● ●	$10 = 1 + \underline{\quad}$
● ● ● ● ● ● ● ● ● ●	$10 = 2 + \underline{\quad}$
● ● ● ● ● ● ● ● ● ●	$10 = 3 + \underline{\quad}$
● ● ● ● ● ● ● ● ● ●	$10 = 4 + \underline{\quad}$
● ● ● ● ● ● ● ● ● ●	$10 = 5 + \underline{\quad}$

● ● ● ● ● ● ●	$7 = 1 + \underline{\quad}$
● ● ● ● ● ● ●	$7 = 2 + \underline{\quad}$
● ● ● ● ● ● ●	$7 = 3 + \underline{\quad}$

● ● ● ● ● ● ● ●	$8 = 1 + \underline{\quad}$
● ● ● ● ● ● ● ●	$8 = 2 + \underline{\quad}$
● ● ● ● ● ● ● ●	$8 = 3 + \underline{\quad}$
● ● ● ● ● ● ● ●	$8 = 4 + \underline{\quad}$

Write 9 in different ways.

9 = \_\_\_\_\_ + \_\_\_\_\_

9 = \_\_\_\_\_ + \_\_\_\_\_

9 = \_\_\_\_\_ + \_\_\_\_\_

9 = \_\_\_\_\_ + \_\_\_\_\_

# Adding Tens and Ones

Write the number as a sum of 10s and 1s.

$$32 = \underline{10 + 10 + 10 + 1 + 1}$$

$$13 = \underline{\hspace{2cm}}$$

$$41 = \underline{\hspace{2cm}}$$

$$22 = \underline{\hspace{2cm}}$$

We can write  $24 = 20 + 4$ . Write the number in the same way.

$$35 = \underline{30 + 5}$$

$$47 = \underline{\hspace{2cm}}$$

$$63 = \underline{\hspace{2cm}}$$

$$81 = \underline{\hspace{2cm}}$$

$$56 = \underline{\hspace{2cm}}$$

$$92 = \underline{\hspace{2cm}}$$

Add.

$$40 + 5 = \underline{45}$$

$$6 + 20 = \underline{\hspace{2cm}}$$

$$70 + 1 = \underline{\hspace{2cm}}$$

$$8 + 60 = \underline{\hspace{2cm}}$$

$$70 + 7 = \underline{\hspace{2cm}}$$

$$4 + 50 = \underline{\hspace{2cm}}$$

$$30 + 8 = \underline{\hspace{2cm}}$$

$$9 + 10 = \underline{\hspace{2cm}}$$

$$6 + 80 = \underline{\hspace{2cm}}$$

$$7 + 90 = \underline{\hspace{2cm}}$$

$$9 + 70 = \underline{\hspace{2cm}}$$

$$90 + 9 = \underline{\hspace{2cm}}$$



# Adding in Two Ways

- Move the line one dot to the right.  $\overrightarrow{\hspace{1cm}}$
- Write the new addition sentence.

● ● | ● ● ● ●     $2 + 4 = 6$   
 ● ● ● | ● ● ●     $3 + 3 = 6$

● | ● ● ● ●     $1 + 4 = 5$   
 ● ● ● ● ●    \_\_\_\_\_

● ● ● | ● ●     $3 + 2 = 5$   
 ● ● ● ● ●    \_\_\_\_\_

● ● ● ● | ● ●     $4 + 2 = 6$   
 ● ● ● ● ● ●    \_\_\_\_\_

● ● | ● ●     $2 + 2 = 4$   
 ● ● ● ●    \_\_\_\_\_

● | ● ●     $1 + 2 = 3$   
 ● ● ●    \_\_\_\_\_

| ● ● ● ●     $0 + 4 = 4$   
 ● ● ● ●    \_\_\_\_\_

● ● ● | ●     $3 + 1 = 4$   
 ● ● ● ●    \_\_\_\_\_

How does the first number change? It goes up by 1.  
 How does the second number change? \_\_\_\_\_  
 What happens to the total? \_\_\_\_\_

Why does that happen?

Add and subtract 1 to make a new number sentence.

$$\begin{array}{r} 2 + 5 = 7 \\ +1 \quad \downarrow \quad \downarrow \quad -1 \\ \boxed{3} + \boxed{4} = \boxed{7} \end{array}$$

$$\begin{array}{r} 3 + 8 = 11 \\ +1 \quad \downarrow \quad \downarrow \quad -1 \\ \boxed{\phantom{0}} + \boxed{\phantom{0}} = \boxed{\phantom{0}} \end{array}$$

$$\begin{array}{r} 6 + 3 = 9 \\ +1 \quad \downarrow \quad \downarrow \quad -1 \\ \boxed{\phantom{0}} + \boxed{\phantom{0}} = \boxed{\phantom{0}} \end{array}$$

$$\begin{array}{r} 8 + 3 = 11 \\ +1 \quad \downarrow \quad \downarrow \quad -1 \\ \boxed{\phantom{0}} + \boxed{\phantom{0}} = \boxed{\phantom{0}} \end{array}$$

$$\begin{array}{r} 9 + 6 = 15 \\ +1 \quad \downarrow \quad \downarrow \quad - \\ \boxed{\phantom{0}} + \boxed{\phantom{0}} = \boxed{\phantom{0}} \end{array}$$

$$\begin{array}{r} 5 + 2 = 7 \\ - \quad \downarrow \quad \downarrow \quad -1 \\ \boxed{\phantom{0}} + \boxed{\phantom{0}} = \boxed{\phantom{0}} \end{array}$$

$$\begin{array}{r} 7 + 11 = 18 \\ - \quad \downarrow \quad \downarrow \quad -1 \\ \boxed{\phantom{0}} + \boxed{\phantom{0}} = \boxed{\phantom{0}} \end{array}$$

$$\begin{array}{r} 11 + 7 = 18 \\ +1 \quad \downarrow \quad \downarrow \quad - \\ \boxed{\phantom{0}} + \boxed{\phantom{0}} = \boxed{\phantom{0}} \end{array}$$

Finish the addition sentence.

$$6 + 11 = 7 + \underline{\hspace{2cm}}$$

$$8 + 4 = 9 + \underline{\hspace{2cm}}$$

- Draw a model.
- Move the line one dot to the left. ←
- Write the new addition sentence.

● ● | ● ● ● ●     $2 + 4 = 6$   
 ● | ● ● ● ● ●     $1 + 5 = 6$

● ● | ● ● ●     $2 + 3 = 5$   
 \_\_\_\_\_

$4 + 1 = 5$   
 \_\_\_\_\_

$4 + 2 = 6$   
 \_\_\_\_\_

$2 + 2 = 4$   
 \_\_\_\_\_

$1 + 2 = 3$   
 \_\_\_\_\_

$2 + 1 = 3$   
 \_\_\_\_\_

$4 + 0 = 4$   
 \_\_\_\_\_

How does the first number change? \_\_\_\_\_

How does the second number change? \_\_\_\_\_

What happens to the total? \_\_\_\_\_

Why does that happen?

- Change both numbers in opposite ways.
- Complete the two addition sentences.

$$\begin{array}{r}
 13 + 4 = 17 \\
 \downarrow \quad \downarrow \\
 -3 \quad +3 \\
 10 + 7 = 17
 \end{array}$$

$$\begin{array}{r}
 8 + 7 = 15 \\
 \downarrow \quad \downarrow \\
 +2 \quad -2 \\
 \square + \square = \square
 \end{array}$$

$$\begin{array}{r}
 7 + 8 = \square \\
 \downarrow \quad \downarrow \\
 +3 \quad \text{---} \\
 \square + \square = \square
 \end{array}$$

$$\begin{array}{r}
 11 + 7 = \square \\
 \downarrow \quad \downarrow \\
 -1 \quad \text{---} \\
 \square + \square = \square
 \end{array}$$

$$\begin{array}{r}
 12 + 6 = \square \\
 \downarrow \quad \downarrow \\
 -2 \quad \text{---} \\
 \square + \square = \square
 \end{array}$$

$$\begin{array}{r}
 5 + 13 = \square \\
 \downarrow \quad \downarrow \\
 \text{---} \quad -3 \\
 \square + \square = \square
 \end{array}$$

$$\begin{array}{r}
 11 + 7 = \square \\
 \downarrow \quad \downarrow \\
 \text{---} \quad +3 \\
 \square + \square = \square
 \end{array}$$

$$\begin{array}{r}
 9 + 8 = \square \\
 \downarrow \quad \downarrow \\
 +1 \quad \text{---} \\
 \square + \square = \square
 \end{array}$$

In each question, did the total change? \_\_\_\_\_

# Using 10 to Add

Use the group of 10 to help you add.

7                      6

7 + 6 = 10 + 3 = 13

8                      6

8 + 6 = 10 + \_\_\_\_\_ = \_\_\_\_\_

9                      7

9 + 7 = 10 + \_\_\_\_\_ = \_\_\_\_\_

8                      8

8 + 8 = \_\_\_\_\_ + 10 = \_\_\_\_\_

7                      5

7 + 5 = 10 + \_\_\_\_\_ = \_\_\_\_\_

4                      8

4 + 8 = \_\_\_\_\_ + 10 = \_\_\_\_\_

Sara groups 10 in two ways. Does she get the same answer?

3                      9

3 + 9 = 10 + \_\_\_\_\_ = \_\_\_\_\_

3                      9

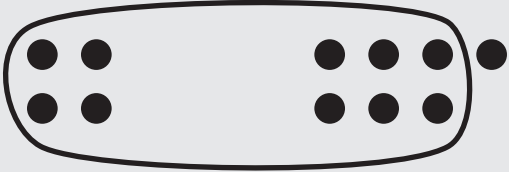
3 + 9 = \_\_\_\_\_ + 10 = \_\_\_\_\_



Circle a group of 10.


Use 10 to add.

4                      7




$4 + 7 = 10 + \underline{1} = \underline{11}$

8                      6




$8 + 6 = 10 + \underline{\quad} = \underline{\quad}$

9                      4




$9 + 4 = 10 + \underline{\quad} = \underline{\quad}$

9                      2



$9 + 2 = 10 + \underline{\quad} = \underline{\quad}$

7                      7



$7 + 7 = 10 + \underline{\quad} = \underline{\quad}$

Make your own.

# Using the Nearest 10 to Add

Use 10 to add.



$$8 + 6 = 10 + \underline{4} = \underline{14}$$



$$7 + 5 = 10 + \underline{\quad} = \underline{\quad}$$

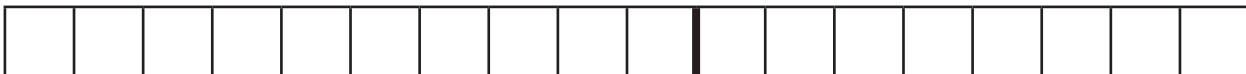


$$7 + 9 = 10 + \underline{\quad} = \underline{\quad}$$

Draw the circles, then add.



$$6 + 5 = 10 + \underline{\quad} = \underline{\quad}$$



$$9 + 5 = 10 + \underline{\quad} = \underline{\quad}$$

Does using 10 make adding easier? \_\_\_\_\_

Explain.

Which two answers are the same? Why did that happen?

- What makes 10 with the first number?  
Subtract that amount from the second number.
- Complete the addition sentences.

$$\begin{array}{r}
 8 + 5 = 13 \\
 \begin{array}{c} +2 \\ \downarrow \\ 10 \end{array} + \begin{array}{c} -2 \\ \downarrow \\ 3 \end{array} = 13
 \end{array}$$

$$\begin{array}{r}
 8 + 7 = \square \\
 \begin{array}{c} \_ \\ \downarrow \\ \square \end{array} + \begin{array}{c} \_ \\ \downarrow \\ \square \end{array} = \square
 \end{array}$$

$$\begin{array}{r}
 9 + 6 = \square \\
 \begin{array}{c} \_ \\ \downarrow \\ \square \end{array} + \begin{array}{c} \_ \\ \downarrow \\ \square \end{array} = \square
 \end{array}$$

$$\begin{array}{r}
 9 + 8 = \square \\
 \begin{array}{c} \_ \\ \downarrow \\ \square \end{array} + \begin{array}{c} \_ \\ \downarrow \\ \square \end{array} = \square
 \end{array}$$

$$\begin{array}{r}
 8 + 9 = \square \\
 \begin{array}{c} \_ \\ \downarrow \\ \square \end{array} + \begin{array}{c} \_ \\ \downarrow \\ \square \end{array} = \square
 \end{array}$$

$$\begin{array}{r}
 9 + 7 = \square \\
 \begin{array}{c} \_ \\ \downarrow \\ \square \end{array} + \begin{array}{c} \_ \\ \downarrow \\ \square \end{array} = \square
 \end{array}$$

$$9 + 5 = 10 + \underline{\quad} = \underline{\quad}$$

$$8 + 4 = 10 + \underline{\quad} = \underline{\quad}$$

$$9 + 4 = \underline{\quad} + \underline{\quad} = \underline{\quad}$$

$$8 + 6 = \underline{\quad} + \underline{\quad} = \underline{\quad}$$

- Add 1 to one of the numbers.
- Subtract 1 from the other number.
- Complete the new addition sentence.

$$32 + 9$$

$$= \underline{31} + \underline{10} = \underline{41}$$

$$19 + 8$$

$$= \underline{\quad} + \underline{\quad} = \underline{\quad}$$

$$7 + 29$$

$$= \underline{\quad} + \underline{\quad} = \underline{\quad}$$

$$27 + 19$$

$$= \underline{\quad} + \underline{\quad} = \underline{\quad}$$

$$19 + 16$$

$$= \underline{\quad} + \underline{\quad} = \underline{\quad}$$

$$29 + 6$$

$$= \underline{\quad} + \underline{\quad} = \underline{\quad}$$

$$18 + 9$$

$$= \underline{\quad} + \underline{\quad} = \underline{\quad}$$

$$9 + 36$$

$$= \underline{\quad} + \underline{\quad} = \underline{\quad}$$

$$9 + 47$$

$$= \underline{\quad} + \underline{\quad} = \underline{\quad}$$

$$38 + 19$$

$$= \underline{\quad} + \underline{\quad} = \underline{\quad}$$

- Sam has to solve  $27 + 29$ . He says  $26 + 30$  has the same answer. Explain why he is correct.
- Which problem is easier,  $27 + 29$  or  $26 + 30$ ? Explain.

- Make a new addition problem by adding and subtracting 2.
- Solve the new addition problem.

$$\begin{array}{r} 18 + 15 \\ = \underline{20} + \underline{\quad} = \underline{\quad} \end{array}$$

$$\begin{array}{r} 14 + 28 \\ = \underline{\quad} + \underline{30} = \underline{\quad} \end{array}$$

$$\begin{array}{r} 37 + 48 \\ = \underline{\quad} + \underline{50} = \underline{\quad} \end{array}$$

$$\begin{array}{r} 68 + 24 \\ = \underline{70} + \underline{\quad} = \underline{\quad} \end{array}$$

$$\begin{array}{r} 42 + 54 \\ = \underline{40} + \underline{\quad} = \underline{\quad} \end{array}$$

$$\begin{array}{r} 72 + 17 \\ = \underline{70} + \underline{\quad} = \underline{\quad} \end{array}$$

$$\begin{array}{r} 56 + 32 \\ = \underline{\quad} + \underline{\quad} = \underline{\quad} \end{array}$$

$$\begin{array}{r} 28 + 45 \\ = \underline{\quad} + \underline{\quad} = \underline{\quad} \end{array}$$

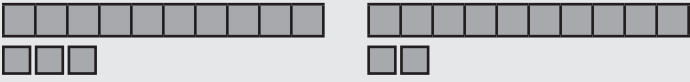
$$\begin{array}{r} 22 + 35 \\ = \underline{\quad} + \underline{\quad} = \underline{\quad} \end{array}$$

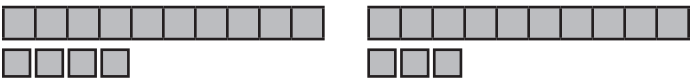
$$\begin{array}{r} 43 + 48 \\ = \underline{\quad} + \underline{\quad} = \underline{\quad} \end{array}$$

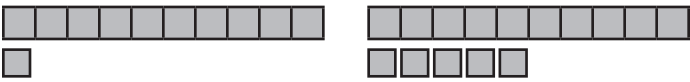
# Using Tens and Ones to Add

How many tens and ones altogether?


Add.


\_\_\_\_\_ tens + \_\_\_\_\_ ones  
 $13 + 12 = \underline{25}$



\_\_\_\_\_ tens + \_\_\_\_\_ ones  
 $14 + 13 = \underline{\quad}$


\_\_\_\_\_ tens + \_\_\_\_\_ ones  
 $11 + 15 = \underline{\quad}$

Now draw the blocks and add.


\_\_\_\_\_ tens + \_\_\_\_\_ ones  
 $12 + 12 = \underline{\quad}$

Make your own problem.


\_\_\_\_\_ tens + \_\_\_\_\_ ones  
 $\underline{\quad} + \underline{\quad} = \underline{\quad}$

Add by separating the tens and ones.

$$\begin{array}{r} 23 \\ + 34 \\ \hline \end{array} = \begin{array}{r} 20 + 3 \\ 30 + 4 \\ \hline 50 + 7 \end{array}$$

57 ←

$$\begin{array}{r} 34 \\ + 15 \\ \hline \end{array} = \begin{array}{r} 30 + 4 \\ 10 + 5 \\ \hline 40 + 9 \end{array}$$

←

$$\begin{array}{r} 27 \\ + 22 \\ \hline \end{array} = \begin{array}{r} 20 + \square \\ 20 + \square \\ \hline 40 + \square \end{array}$$

←

$$\begin{array}{r} 35 \\ + 42 \\ \hline \end{array} = \begin{array}{r} \square + \square \\ \square + \square \\ \hline \square + \square \end{array}$$

←

$$\begin{array}{r} 15 \\ + 23 \\ \hline \end{array} = \begin{array}{r} \square + \square \\ \square + \square \\ \hline \square + \square \end{array}$$

←

$$\begin{array}{r} 26 \\ + 13 \\ \hline \end{array} = \begin{array}{r} \square + \square \\ \square + \square \\ \hline \square + \square \end{array}$$

←

$$\begin{array}{r} 34 \\ + 54 \\ \hline \end{array} = \begin{array}{r} \square + \square \\ \square + \square \\ \hline \square + \square \end{array}$$

←

$$\begin{array}{r} 26 \\ + 33 \\ \hline \end{array} = \begin{array}{r} \square + \square \\ \square + \square \\ \hline \square + \square \end{array}$$

←

$$\begin{array}{r} 22 \\ 14 \\ + 21 \\ \hline \end{array} = \begin{array}{r} \square + \square \\ \square + \square \\ \square + \square \\ \hline \square + \square \end{array}$$

←

$$\begin{array}{r} 11 \\ 22 \\ + 33 \\ \hline \end{array} = \begin{array}{r} \square + \square \\ \square + \square \\ \square + \square \\ \hline \square + \square \end{array}$$

←

Add by using a tens and ones chart.

$\begin{array}{r} 35 \\ + 32 \\ \hline \end{array}$	<table border="1" style="border-collapse: collapse; text-align: center;"> <tr><th>tens</th><th>ones</th></tr> <tr><td>3</td><td>5</td></tr> <tr><td>3</td><td>2</td></tr> <tr style="border-top: 1px solid black;"><td>6</td><td>7</td></tr> </table>	tens	ones	3	5	3	2	6	7
tens	ones								
3	5								
3	2								
6	7								

←

$\begin{array}{r} 24 \\ + 41 \\ \hline \end{array}$	<table border="1" style="border-collapse: collapse; text-align: center;"> <tr><th>tens</th><th>ones</th></tr> <tr><td>2</td><td>4</td></tr> <tr><td>4</td><td>1</td></tr> <tr style="border-top: 1px solid black;"><td> </td><td> </td></tr> </table>	tens	ones	2	4	4	1		
tens	ones								
2	4								
4	1								

←

$\begin{array}{r} 46 \\ + 31 \\ \hline \end{array}$	<table border="1" style="border-collapse: collapse; text-align: center;"> <tr><th>tens</th><th>ones</th></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr style="border-top: 1px solid black;"><td> </td><td> </td></tr> </table>	tens	ones						
tens	ones								

←

$\begin{array}{r} 43 \\ + 23 \\ \hline \end{array}$	<table border="1" style="border-collapse: collapse; text-align: center;"> <tr><th>tens</th><th>ones</th></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr style="border-top: 1px solid black;"><td> </td><td> </td></tr> </table>	tens	ones						
tens	ones								

←

$\begin{array}{r} 27 \\ + 21 \\ + 51 \\ \hline \end{array}$	<table border="1" style="border-collapse: collapse; text-align: center;"> <tr><th>tens</th><th>ones</th></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr style="border-top: 1px solid black;"><td> </td><td> </td></tr> </table>	tens	ones						
tens	ones								

←

$\begin{array}{r} 31 \\ + 42 \\ + 14 \\ \hline \end{array}$	<table border="1" style="border-collapse: collapse; text-align: center;"> <tr><th>tens</th><th>ones</th></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr style="border-top: 1px solid black;"><td> </td><td> </td></tr> </table>	tens	ones						
tens	ones								

←

tens	ones
3	2
2	7

tens	ones
4	8
3	1

tens	ones
5	5
2	3

tens	ones
2	2
1	3

$$\begin{array}{r} 37 \\ + 22 \\ \hline \end{array}$$

$$\begin{array}{r} 63 \\ + 16 \\ \hline \end{array}$$

$$\begin{array}{r} 25 \\ + 34 \\ \hline \end{array}$$

$$\begin{array}{r} 31 \\ + 62 \\ \hline \end{array}$$

$$\begin{array}{r} 54 \\ + 34 \\ \hline \end{array}$$

$$\begin{array}{r} 23 \\ + 43 \\ \hline \end{array}$$



# Many Ways to Write a Number

Write 53 in many ways.

1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50
51	52	53	54	55	56	57	58	59	60

5 tens + 3 ones

1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50
51	52	53	54	55	56	57	58	59	60

\_\_\_\_\_ tens + \_\_\_\_\_ ones

1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50
51	52	53	54	55	56	57	58	59	60

\_\_\_\_\_ tens + \_\_\_\_\_ ones

Write the number in many ways.

24

tens	ones
2	4
1	14
0	24

27

tens	ones

26

tens	ones

37

tens	ones

38

tens	ones

31

tens	ones

50

tens	ones

56

tens	ones

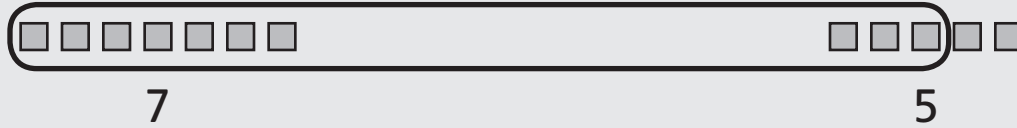
52

tens	ones

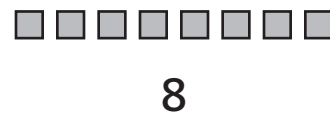
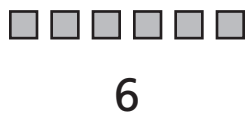
COPYRIGHT © 2017 JUMP MATH: NOT TO BE COPIED

# Regrouping

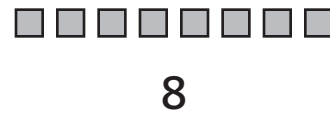
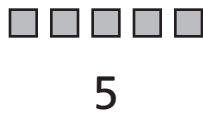
- Group 10 ones blocks together.
- Add.



$$7 + 5 = 10 + \underline{2} = \underline{12}$$



$$6 + 8 = 10 + \underline{\quad} = \underline{\quad}$$



$$5 + 8 = 10 + \underline{\quad} = \underline{\quad}$$



$$8 + 4 = 10 + \underline{\quad} = \underline{\quad}$$

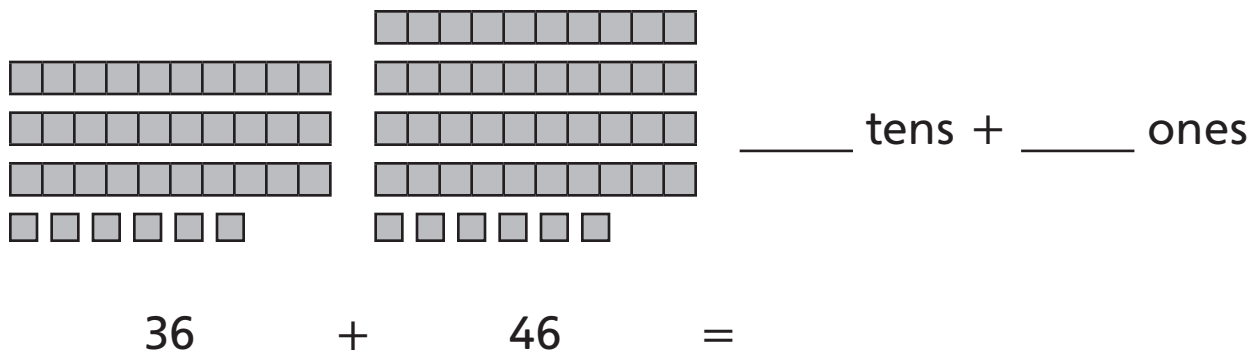
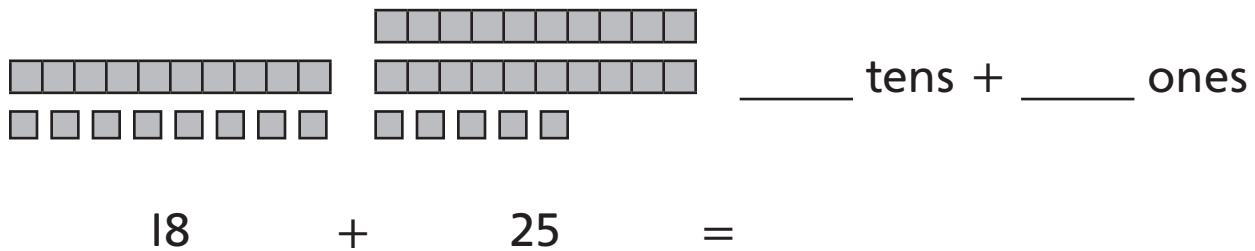
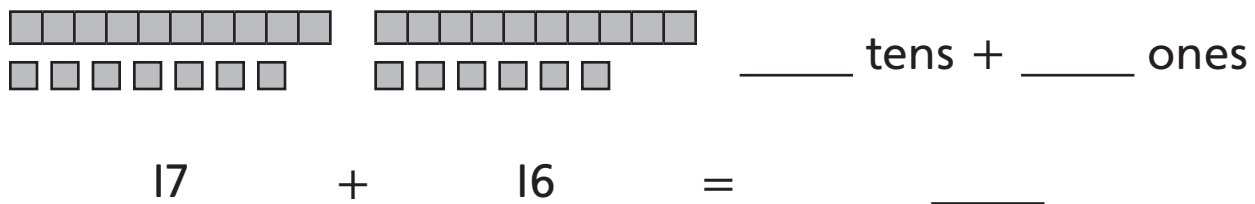
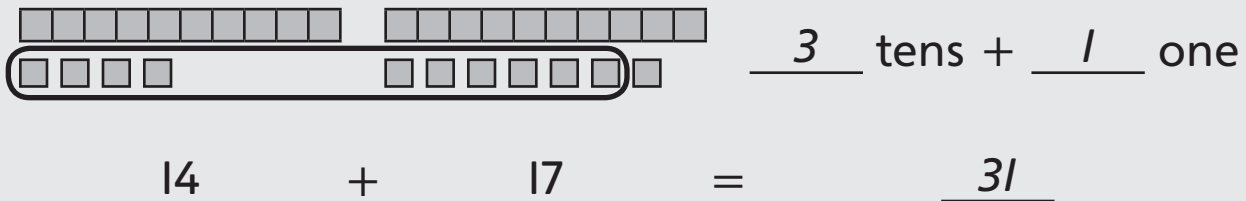


$$7 + 7 = 10 + \underline{\quad} = \underline{\quad}$$

Group 10 ones blocks together.

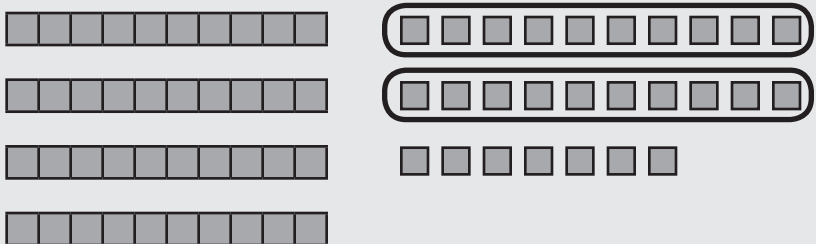
How many tens and ones?

Add.

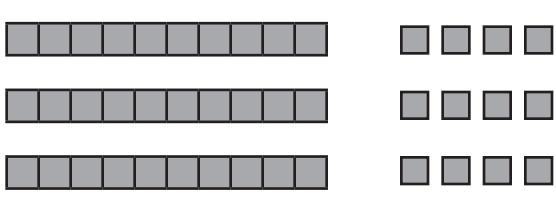


- Trade groups of 10 ones for tens.
- Regroup in the next row.

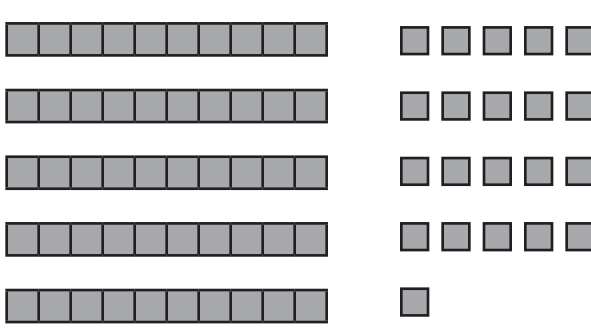
tens	ones
4	27
6	7



tens	ones
3	12



tens	ones
5	21



tens	ones
3	15

tens	ones
6	19

tens	ones
4	28

COPYRIGHT © 2017 JUMP MATH: NOT TO BE COPIED

- Add the tens and ones.
- Regroup in the next row.
- Write the answer.

tens	ones
1	6
5	5
<hr/>	
6	11
7	1

$$\begin{array}{r} 16 \\ + 55 \\ \hline \boxed{71} \end{array}$$

tens	ones
1	2
2	9
<hr/>	

$$\begin{array}{r} 12 \\ + 29 \\ \hline \square \end{array}$$

tens	ones
2	5
3	8
<hr/>	

$$\begin{array}{r} 25 \\ + 38 \\ \hline \square \end{array}$$

tens	ones
5	7
2	6
<hr/>	

$$\begin{array}{r} 57 \\ + 26 \\ \hline \square \end{array}$$

tens	ones
2	8
2	6
<hr/>	

$$\begin{array}{r} 28 \\ + 26 \\ \hline \square \end{array}$$

tens	ones
2	3
5	2
1	6
<hr/>	

$$\begin{array}{r} 23 \\ 52 \\ + 16 \\ \hline \square \end{array}$$

# The Standard Algorithm for Addition

- Add the ones.
- Write the tens digit in the tens column.
- Write the ones digit in the ones column.

$5 + 9 = \boxed{1} \boxed{4}$

tens ones

/	
1	5
+	9
	4

$3 + 8 = \boxed{1} \boxed{1}$

tens ones

2	3
+	8

$6 + 4 = \boxed{1} \boxed{0}$

tens ones

5	6
+	4

$7 + 5 = \boxed{\phantom{0}} \boxed{\phantom{0}}$

tens ones

3	7
+	5

$6 + 9 = \boxed{\phantom{0}} \boxed{\phantom{0}}$

tens ones

1	6
+	9

$\_ + \_ = \boxed{\phantom{0}} \boxed{\phantom{0}}$

tens ones

2	7
+	8

1	4
+	8

4	7
+	3

1	5
+	5

COPYRIGHT © 2017 JUMP MATH. NOT TO BE COPIED

- Add the ones first.
- Then add the tens to find the total.

$$\begin{array}{r}
 \square \\
 1 \ 5 \\
 + 2 \ 9 \\
 \hline
 \square \ \square
 \end{array}$$

$$\begin{array}{r}
 \square \\
 2 \ 3 \\
 + 3 \ 8 \\
 \hline
 \square \ \square
 \end{array}$$

$$\begin{array}{r}
 \square \\
 5 \ 6 \\
 + 3 \ 4 \\
 \hline
 \square \ \square
 \end{array}$$

$$\begin{array}{r}
 \square \\
 2 \ 9 \\
 + 1 \ 1 \\
 \hline
 \square \ \square
 \end{array}$$

$$\begin{array}{r}
 \square \\
 3 \ 7 \\
 + 2 \ 5 \\
 \hline
 \square \ \square
 \end{array}$$

$$\begin{array}{r}
 \square \\
 1 \ 6 \\
 + 4 \ 9 \\
 \hline
 \square \ \square
 \end{array}$$

$$\begin{array}{r}
 \square \\
 2 \ 7 \\
 + 3 \ 8 \\
 \hline
 \square \ \square
 \end{array}$$

$$\begin{array}{r}
 \square \\
 1 \ 5 \\
 + 1 \ 9 \\
 \hline
 \square \ \square
 \end{array}$$

$$\begin{array}{r}
 \square \\
 1 \ 4 \\
 + 3 \ 8 \\
 \hline
 \square \ \square
 \end{array}$$

$$\begin{array}{r}
 \square \\
 4 \ 7 \\
 + 2 \ 3 \\
 \hline
 \square \ \square
 \end{array}$$

$$\begin{array}{r}
 \square \\
 1 \ 5 \\
 + 3 \ 5 \\
 \hline
 \square \ \square
 \end{array}$$

$$\begin{array}{r}
 \square \\
 2 \ 8 \\
 + 3 \ 8 \\
 \hline
 \square \ \square
 \end{array}$$



Add. Regroup when you need to.

$$\begin{array}{r} \square \\ 1 \ 9 \\ + 2 \ 6 \\ \hline \square \ \square \end{array}$$

$$\begin{array}{r} \square \\ 2 \ 5 \\ + 3 \ 3 \\ \hline \square \ \square \end{array}$$

$$\begin{array}{r} \square \\ 3 \ 7 \\ + 2 \ 5 \\ \hline \square \ \square \end{array}$$

$$\begin{array}{r} \square \\ 2 \ 3 \\ + 4 \ 6 \\ \hline \square \ \square \end{array}$$

$$\begin{array}{r} \square \\ 2 \ 9 \\ + \ \ \ 4 \\ \hline \square \ \square \end{array}$$

$$\begin{array}{r} \square \\ 1 \ 3 \\ + 2 \ 2 \\ \hline \square \ \square \end{array}$$

$$\begin{array}{r} \square \\ 4 \ 7 \\ + \ \ \ 3 \\ \hline \square \ \square \end{array}$$

$$\begin{array}{r} \square \\ 8 \ 6 \\ + \ \ \ 1 \\ \hline \square \ \square \end{array}$$

Liz added the tens before the ones.

Circle the answers she got wrong.

$$\begin{array}{r} \square \\ 1 \ 1 \\ + 5 \ 8 \\ \hline \square \ \square \end{array}$$

$$\begin{array}{r} \square \\ 1 \ 7 \\ + 2 \ 7 \\ \hline \square \ \square \end{array}$$

$$\begin{array}{r} \square \\ 2 \ 6 \\ + 2 \ 6 \\ \hline \square \ \square \end{array}$$

$$\begin{array}{r} \square \\ 4 \ 3 \\ + 2 \ 5 \\ \hline \square \ \square \end{array}$$

Add.

29 + 14

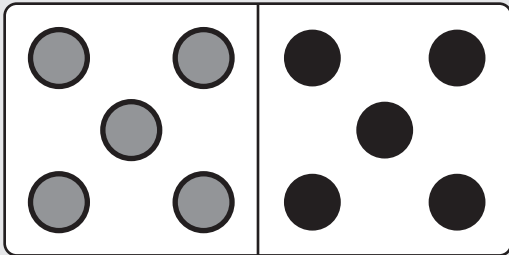
37 + 46

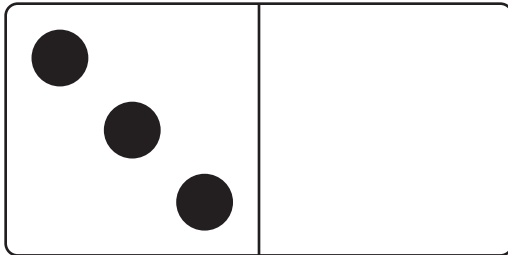
48 + 23

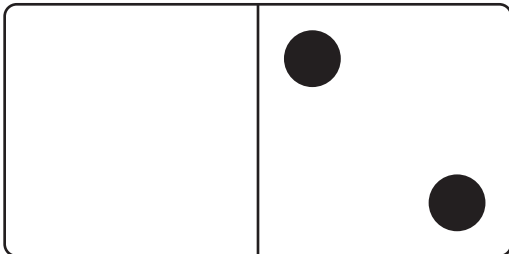
55 + 39

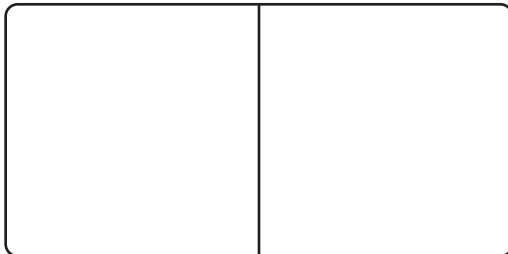
# Doubles

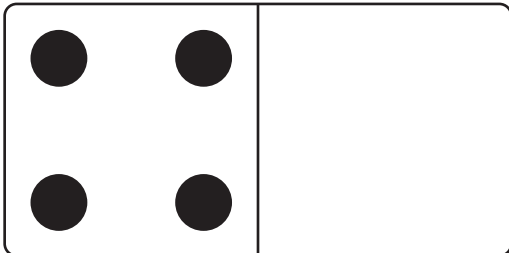
- Draw the same number of dots on the other side.
- Write a doubles sentence.

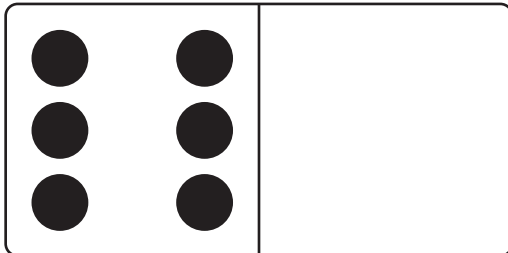

<u>  10  </u> is double <u>  5  </u>


<u>      </u> is double <u>      </u>

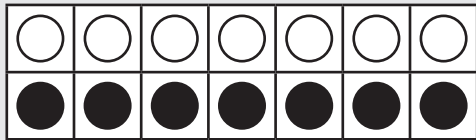

<u>      </u> is double <u>      </u>


<u>      </u> is double <u>  0  </u>

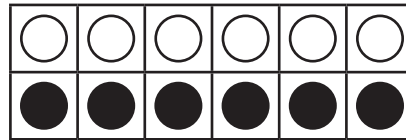

<u>_____</u>


<u>_____</u>

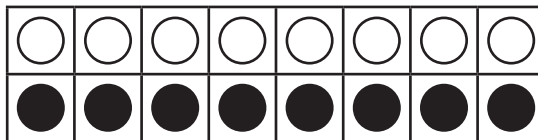
Write an addition sentence for the double.



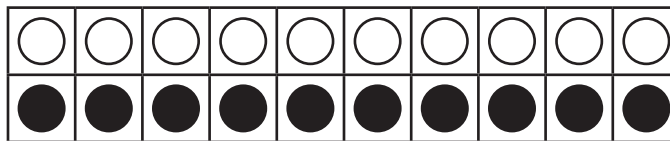
$$\underline{7} + \underline{7} = \underline{14}$$



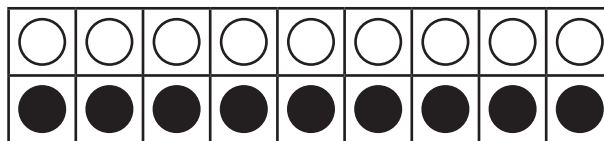
$$\underline{\quad} + \underline{\quad} = \underline{\quad}$$



$$\underline{\quad} + \underline{\quad} = \underline{\quad}$$



$$\underline{\quad} + \underline{\quad} = \underline{\quad}$$



$$\underline{\quad} + \underline{\quad} = \underline{\quad}$$

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

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

# Using Doubles to Add

Double, then add 1.

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

so  $4 + 5 = \underline{9}$

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

so  $4 + 3 = \underline{\quad}$

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

so  $8 + 7 = \underline{\quad}$

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

so  $8 + 9 = \underline{\quad}$

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

so  $6 + 7 = \underline{\quad}$

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

so  $6 + 5 = \underline{\quad}$

$$\underline{\quad} + \underline{\quad} = \underline{\quad}$$

so  $7 + 8 = \underline{\quad}$

$$\underline{\quad} + \underline{\quad} = \underline{\quad}$$

so  $5 + 4 = \underline{\quad}$

$$\underline{\quad} + \underline{\quad} = \underline{\quad}$$

so  $5 + 6 = \underline{\quad}$

$$\underline{\quad} + \underline{\quad} = \underline{\quad}$$

so  $10 + 9 = \underline{\quad}$

## Bonus

 Find  $30 + 31$ .

Double, then subtract 1.

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

so  $7 + 6 = \underline{13}$

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

so  $8 + 9 = \underline{\quad}$

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

so  $6 + 5 = \underline{\quad}$

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

so  $7 + 8 = \underline{\quad}$

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

so  $8 + 7 = \underline{\quad}$

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

so  $4 + 5 = \underline{\quad}$

$$\underline{\quad} + \underline{\quad} = \underline{\quad}$$

so  $9 + 10 = \underline{\quad}$

$$\underline{\quad} + \underline{\quad} = \underline{\quad}$$

so  $9 + 8 = \underline{\quad}$

$$\underline{\quad} + \underline{\quad} = \underline{\quad}$$

so  $3 + 4 = \underline{\quad}$

$$\underline{\quad} + \underline{\quad} = \underline{\quad}$$

so  $7 + 8 = \underline{\quad}$

### Bonus

Find  $40 + 39$ .

- Write how many **more** or **less**.
- Find the double.
- Add.

$$4 + 5 \text{ is } \underline{\hspace{2cm}} \text{ *1 more than* } \underline{\hspace{2cm}} 4 + 4$$

$$4 + 4 = \underline{8} \quad \text{so} \quad 4 + 5 = \underline{9}$$

$$8 + 9 \text{ is } \underline{\hspace{2cm}} 9 + 9$$

$$9 + 9 = \underline{\hspace{2cm}} \quad \text{so} \quad 8 + 9 = \underline{\hspace{2cm}}$$

$$8 + 7 \text{ is } \underline{\hspace{2cm}} 8 + 8$$

$$8 + 8 = \underline{\hspace{2cm}} \quad \text{so} \quad 8 + 7 = \underline{\hspace{2cm}}$$

$$6 + 7 \text{ is } \underline{\hspace{2cm}} 6 + 6$$

$$6 + 6 = \underline{\hspace{2cm}} \quad \text{so} \quad 6 + 7 = \underline{\hspace{2cm}}$$

$$9 + 10 \text{ is } \underline{\hspace{2cm}} 10 + 10$$

$$10 + 10 = \underline{\hspace{2cm}} \quad \text{so} \quad 9 + 10 = \underline{\hspace{2cm}}$$

$$7 + 6 \text{ is } \underline{\hspace{2cm}}$$

$$\underline{\hspace{2cm}} \quad \text{so} \quad 7 + 6 = \underline{\hspace{2cm}}$$

Which two questions have the same answer?  
Why did that happen?