

Challenge

Animal Fun

Cross out the extra information. Solve the story problems.

1. Six cougars were hunting in the mountains. Two more joined the hunt. Four cougars were in the jungle. How many cougars were hunting in the mountains?

2. Ten young tigers are playing by the water. One tiger is two years old. Three tigers join them. How many tigers are playing by the water?

3. Four birds were singing in the tree. Five birds flew up to the tree. The tree had nine branches. How many birds are in the tree?

4. Eight monkeys were sleeping. Three woke up and began to play with two other monkeys. How many monkeys are still sleeping?

5. Three whales were swimming together. Three other whales swam over to them. Six dolphins were eating. How many whales were swimming together?

6. **Create Your Own** On a separate sheet of paper, write an animal story problem with extra information. Then have a classmate solve it.

Challenge

Animal Fun

Cross out the extra information. Solve the story problems.

1. Six cougars were hunting in the mountains. Two more joined the hunt. ~~Four cougars were in the jungle.~~ How many cougars were hunting in the mountains?

8 cougars

2. Ten young tigers are playing by the water. ~~One tiger is two years old.~~ Three tigers join them. How many tigers are playing by the water?

13 tigers

3. Four birds were singing in the tree. Five birds flew up to the tree. ~~The tree had nine branches.~~ How many birds are in the tree?

9 birds

4. Eight monkeys were sleeping. Three woke up and began to play ~~with two other monkeys.~~ How many monkeys are still sleeping?

5 monkeys

5. Three whales were swimming together. Three other whales swam over to them. ~~Six dolphins were eating.~~ How many whales were swimming together?

6 whales

6. **Create Your Own** On a separate sheet of paper, write an animal story problem with extra information. Then have a classmate solve it.

Check children's work.

Challenge

Make a Story Problem

1. Read the problem.

Brett picked apples and
put 6 in a box.
Jan put in some, too.



2. Make a math drawing to
show what happened.

3. Ring the most reasonable
answer in the box.

There are more apples.

An apple is next in the pattern.

There are fewer apples.

4. Write your own story problem and solve.

Challenge

Make a Story Problem

1. Read the problem.

Brett picked apples and
put 6 in a box.

Jan put in some, too.

2. Make a math drawing to
show what happened.

3. Ring the most reasonable
answer in the box.

**Drawings will vary.
Check children's work.
Possible drawing:**

○ ○ ○ ○ ○ ○ + ○ ○ ○

B

J

There are more apples.

An apple is next in the pattern.

There are fewer apples.

4. Write your own story problem and solve.

Story problems will vary. Check children's work.

Challenge

Patterning With Zero

Write the numbers to make a pattern.

Then write the last two exercises.

$\begin{array}{r} 1 \\ - 1 \\ \hline \end{array}$	$\begin{array}{r} 1 \\ - \\ \hline 1 \end{array}$	$\begin{array}{r} 2 \\ - 2 \\ \hline \end{array}$	$\begin{array}{r} 2 \\ - \\ \hline 2 \end{array}$	$\begin{array}{r} 3 \\ - \\ \hline 0 \end{array}$
$\begin{array}{r} 3 \\ - \\ \hline 3 \end{array}$	$\begin{array}{r} 4 \\ - \\ \hline 0 \end{array}$	$\begin{array}{r} - 0 \\ \hline 4 \end{array}$	$\begin{array}{r} - 5 \\ \hline 0 \end{array}$	$\begin{array}{r} - 0 \\ \hline 5 \end{array}$
$\begin{array}{r} 6 \\ - \\ \hline 0 \end{array}$	$\begin{array}{r} 6 \\ - 0 \\ \hline \end{array}$	$\begin{array}{r} - 7 \\ \hline 0 \end{array}$	$\begin{array}{r} - \\ \hline \end{array}$	$\begin{array}{r} - \\ \hline \end{array}$

Write About It Explain the pattern.

Challenge

Patterning With Zero

Write the numbers to make a pattern.

Then write the last two exercises.

$\begin{array}{r} 1 \\ - 1 \\ \hline 0 \end{array}$	$\begin{array}{r} 1 \\ - 0 \\ \hline 1 \end{array}$	$\begin{array}{r} 2 \\ - 2 \\ \hline 0 \end{array}$	$\begin{array}{r} 2 \\ - 0 \\ \hline 2 \end{array}$	$\begin{array}{r} 3 \\ - 3 \\ \hline 0 \end{array}$
$\begin{array}{r} 3 \\ - 0 \\ \hline 3 \end{array}$	$\begin{array}{r} 4 \\ - 4 \\ \hline 0 \end{array}$	$\begin{array}{r} 4 \\ - 0 \\ \hline 4 \end{array}$	$\begin{array}{r} 5 \\ - 5 \\ \hline 0 \end{array}$	$\begin{array}{r} 5 \\ - 0 \\ \hline 5 \end{array}$
$\begin{array}{r} 6 \\ - 6 \\ \hline 0 \end{array}$	$\begin{array}{r} 6 \\ - 0 \\ \hline 6 \end{array}$	$\begin{array}{r} 7 \\ - 7 \\ \hline 0 \end{array}$	$\begin{array}{r} 7 \\ - 0 \\ \hline 7 \end{array}$	$\begin{array}{r} 8 \\ - 8 \\ \hline 0 \end{array}$

Write About It Explain the pattern.

Responses will vary. A possible response is: The difference is 0, 1 more than 0, then 0 and 2 more than zero, then 0 and 3 more than 0, then 0 and 4 more, then 0 and 5 more, 0 and 6 more, 0 and 7 more, 0.

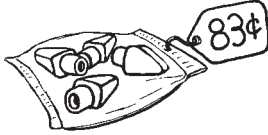
Challenge

Exact Amounts

Find two ways to pay an exact amount for each item.

Make circle drawings of money values to show the coins.

1.



Way 1	
Way 2	

2.



Way 1	
Way 2	

3.



Way 1	
Way 2	

4.



Way 1	
Way 2	

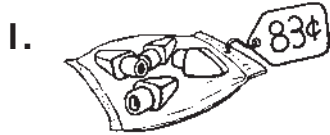
Challenge

Exact Amounts

Find two ways to pay an exact amount for each item.

Make circle drawings of money values to show the coins.

Possible answers shown.



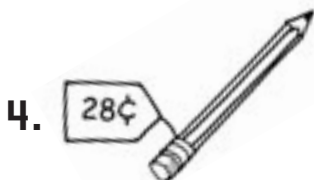
Way 1	$25¢$ $25¢$ $25¢$ $5¢$ $1¢$ $1¢$ $1¢$
Way 2	$25¢$ $25¢$ $10¢$ $10¢$ $10¢$ $1¢$ $1¢$ $1¢$



Way 1	$25¢$ $25¢$ $25¢$ $1¢$ $1¢$ $1¢$ $1¢$
Way 2	$25¢$ $25¢$ $10¢$ $10¢$ $5¢$ $1¢$ $1¢$ $1¢$ $1¢$



Way 1	$25¢$ $25¢$ $1¢$ $1¢$ $1¢$
Way 2	$25¢$ $10¢$ $10¢$ $5¢$ $1¢$ $1¢$ $1¢$



Way 1	$25¢$ $1¢$ $1¢$ $1¢$
Way 2	$10¢$ $10¢$ $5¢$ $1¢$ $1¢$ $1¢$

Challenge

Numbers to the Rescue!

Read Marco's list. It shows how many cans he collected, but it is hard to read.

<i>Cans Collected</i>	
<i>Monday</i>	<i>twenty-five</i>
<i>Wednesday</i>	<i>fourteen</i>
<i>Friday</i>	<i>fifty</i>
<i>Saturday</i>	<i>forty-two</i>

Rewrite the list. Write numbers instead of the word names for how many cans Marco collected.

Day

Number

_____	_____
_____	_____
_____	_____
_____	_____

Write About It If Marco counted the fifty cans he collected on Friday by tens, what numbers would he say before he got to fifty? Explain how you know.

Challenge

Numbers to the Rescue!

Read Marco's list. It shows how many cans he collected, but it is hard to read.

Cans Collected	
Monday	twenty-five
Wednesday	fourteen
Friday	fifty
Saturday	forty-two

Rewrite the list. Write numbers instead of the word names for how many cans Marco collected.

Day	Number
<u>Monday</u>	<u>25</u>
<u>Wednesday</u>	<u>14</u>
<u>Friday</u>	<u>50</u>
<u>Saturday</u>	<u>42</u>

Write About It If Marco counted the fifty cans he collected on Friday by tens, what numbers would he say before he got to fifty? Explain how you know.

He would say 10, 20, 30, 40. I started with 10

and kept counting until I got to 50.

Challenge

At the Fair

A player needs at least 10 points to win a prize at the fair.

Fill in the table below. Ring the names of the prize winners.

Player	Round 1	Round 2	Round 3	Total Score
Raul	2	4	6	
Anna	7		1	10
Bree	3	4	4	
Peter		2	2	10
Kelly	3	3	6	
Seth	4	9	3	
Maeve	5		5	10
Will	1	2	5	
Jolanda	2	3	4	
Angie	5	5	5	

Extend It Look at Will's total score. Would it be possible for him to score the same amount of points in each round and still get the same score?

Challenge

At the Fair

A player needs at least 10 points to win a prize at the fair. Fill in the table below. Ring the names of the prize winners.

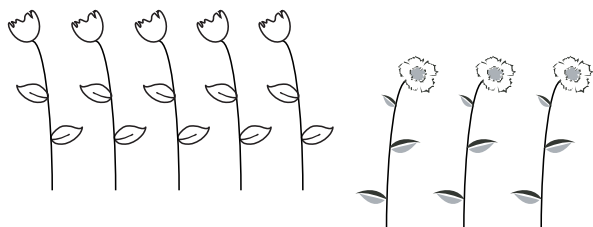
Player	Round 1	Round 2	Round 3	Total Score
Raul	2	4	6	12
Anna	7	2	1	10
Bree	3	4	4	11
Peter	6	2	2	10
Kelly	3	3	6	12
Seth	4	9	3	16
Maeve	5	0	5	10
Will	1	2	5	8
Jolanda	2	3	4	9
Angie	5	5	5	15

Extend It Look at Will's total score. Would it be possible for him to score the same amount of points in each round and still get the same score?

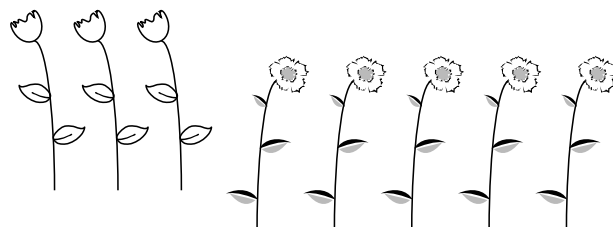
Possible answer: This would not be possible because you cannot split 8 things into 3 equal groups.

Challenge

Add in Any Order



Kelly planted 5 tulips
and 3 daffodils.



Chris planted 3 tulips
and 5 daffodils.

1. Who planted more daffodils? _____

2. Who planted more tulips? _____

3. Write the equation to show how many
flowers each child planted in all.

Kelly: _____

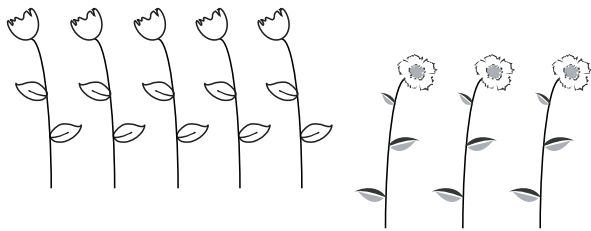
Chris: _____

4. Who planted more flowers? Explain how you know.

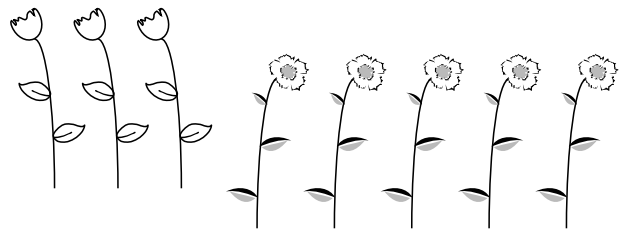
5. **Explore It** Make Math Mountains to show all the
possible break-aparts for the number 8.

Challenge

Add in Any Order



Kelly planted 5 tulips
and 3 daffodils.



Chris planted 3 tulips
and 5 daffodils.

1. Who planted more daffodils? Chris

2. Who planted more tulips? Kelly

3. Write the equation to show how many
flowers each child planted in all.

Kelly: $5+3=8$

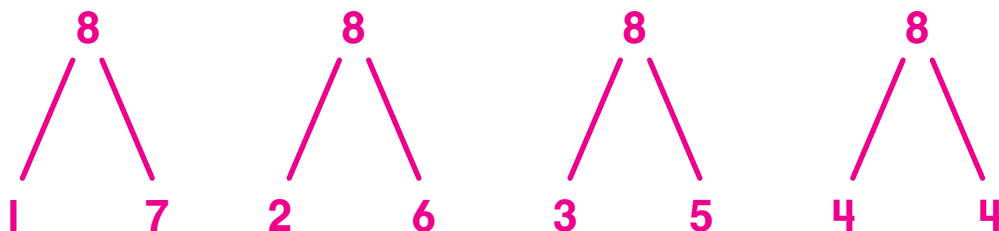
Chris: $3+5=8$

4. Who planted more flowers? Explain how you know.

Kelly and Chris planted the same amount of flowers.

They both planted 8 flowers.

5. **Explore It** Make Math Mountains to show all the
possible break-aparts for the number 8.



Challenge

Riddle Time

What does each letter stand for? Write the matching letter on the blank above each *number partner* to solve the riddle.

1. $8 + Q = 10$ $Q =$ _____

2. $A + 6 = 11$ $A =$ _____

3. $R + 7 = 15$ $R =$ _____

4. $9 + U = 12$ $U =$ _____

5. $6 + S = 10$ $S =$ _____

6. $E + 8 = 14$ $E =$ _____

7. $W + 6 = 13$ $W =$ _____

8. $I + 4 = 13$ $I =$ _____

9. $2 + K = 12$ $K =$ _____

10. $0 + C = 1$ $C =$ _____

What do you call a duck that gets good grades in school?

5	7	9	4	6		
2	3	5	1	10	6	8

Challenge

Riddle Time

What does each letter stand for? Write the matching letter on the blank above each *number partner* to solve the riddle.

1. $8 + Q = 10$ $Q = \underline{\quad 2 \quad}$

2. $A + 6 = 11$ $A = \underline{\quad 5 \quad}$

3. $R + 7 = 15$ $R = \underline{\quad 8 \quad}$

4. $9 + U = 12$ $U = \underline{\quad 3 \quad}$

5. $6 + S = 10$ $S = \underline{\quad 4 \quad}$

6. $E + 8 = 14$ $E = \underline{\quad 6 \quad}$

7. $W + 6 = 13$ $W = \underline{\quad 7 \quad}$

8. $I + 4 = 13$ $I = \underline{\quad 9 \quad}$

9. $2 + K = 12$ $K = \underline{\quad 10 \quad}$

10. $0 + C = 1$ $C = \underline{\quad 1 \quad}$

What do you call a duck that gets good grades in school?

A	W	I	S	E		
5	7	9	4	6		
Q	U	A	C	K	E	R
2	3	5	1	10	6	8

Challenge

It's a Date

You can use counting on to find dates on a calendar. School starts on September 4. Ring that number on the calendar.

S	M	T	W	T	F	S
					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

- Risa plans to go to the library 3 days after school starts. Ring the date she will go to the library. What date will that be? September _____
- Risa plans to visit her grandmother 2 days after going to the library. Ring the date of her visit. What date will that be? September _____
- Six days after her visit is her friend's cookout. Ring the date of the cookout. What date will that be? September _____
- How many days after the cookout is September 21? _____
- Explain Your Thinking** Write how you found the number of days in exercise 4.

Challenge

It's a Date

You can use counting on to find dates on a calendar. School starts on September 4. Ring that number on the calendar.

S	M	T	W	T	F	S
					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

- Risa plans to go to the library 3 days after school starts. Ring the date she will go to the library. What date will that be? September 7
- Risa plans to visit her grandmother 2 days after going to the library. Ring the date of her visit. What date will that be? September 9
- Six days after her visit is her friend's cookout. Ring the date of the cookout. What date will that be? September 15
- How many days after the cookout is September 21? 6 days

- Explain Your Thinking** Write how you found the number of days in exercise 4.

Answers will vary. Check children's work. Possible answer:

I started on September 15 and began counting

on until I landed on September 21. It is 6 days after.

Challenge

Play Ball!

Solve. Show your work.

1. There are 11 players on Elijah's baseball team. The coach has 6 baseball caps. How many more does he need for the team?

2. There are 14 players on Hannah's softball team. The coach has 8 jerseys. How many more does she need for the team?

3. Marin's team has 15 runs. The other team has 7 runs. How many more runs has Marin's team scored?

4. Seung Jae's team has 17 players. There are 9 players on the field. How many players are on the bench?

Challenge

Play Ball!

Solve. Show your work. **Methods may vary.**

1. There are 11 players on Elijah's baseball team. The coach has 6 baseball caps. How many more does he need for the team?

Already 6 $\begin{array}{ccccccc} \cdot & \cdot & \cdot & \cdot & \cdot & & \\ 7 & 8 & 9 & 10 & 11 & & \end{array}$

5 more baseball caps

2. There are 14 players on Hannah's softball team. The coach has 8 jerseys. How many more does she need for the team?

$$8 + \square = 14$$

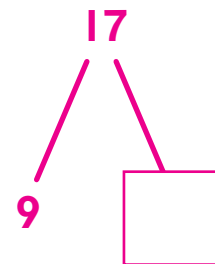
6 more jerseys

3. Marin's team has 15 runs. The other team has 7 runs. How many more runs has Marin's team scored?

$$15 - 7 = \square$$

8 more runs

4. Seung Jae's team has 17 players. There are 9 players on the field. How many players are on the bench?



8 players

Challenge

Same Teen Totals

Add to find all of the totals. Ring the addition that has the same teen total as the equation.

1. $9 + 9 = \underline{\quad}$ $\begin{array}{r} 10 \\ + 5 \\ \hline \end{array}$ $\begin{array}{r} 10 \\ + 8 \\ \hline \end{array}$ $\begin{array}{r} 10 \\ + 6 \\ \hline \end{array}$ $\begin{array}{r} 10 \\ + 9 \\ \hline \end{array}$

2. $7 + 6 = \underline{\quad}$ $\begin{array}{r} 10 \\ + 1 \\ \hline \end{array}$ $\begin{array}{r} 10 \\ + 2 \\ \hline \end{array}$ $\begin{array}{r} 10 \\ + 3 \\ \hline \end{array}$ $\begin{array}{r} 10 \\ + 6 \\ \hline \end{array}$

3. $8 + 7 = \underline{\quad}$ $\begin{array}{r} 10 \\ + 8 \\ \hline \end{array}$ $\begin{array}{r} 10 \\ + 5 \\ \hline \end{array}$ $\begin{array}{r} 10 \\ + 7 \\ \hline \end{array}$ $\begin{array}{r} 10 \\ + 6 \\ \hline \end{array}$

4. $5 + 8 = \underline{\quad}$ $\begin{array}{r} 10 \\ + 3 \\ \hline \end{array}$ $\begin{array}{r} 10 \\ + 6 \\ \hline \end{array}$ $\begin{array}{r} 10 \\ + 5 \\ \hline \end{array}$ $\begin{array}{r} 10 \\ + 8 \\ \hline \end{array}$

5. $6 + 5 = \underline{\quad}$ $\begin{array}{r} 10 \\ + 1 \\ \hline \end{array}$ $\begin{array}{r} 10 \\ + 3 \\ \hline \end{array}$ $\begin{array}{r} 10 \\ + 5 \\ \hline \end{array}$ $\begin{array}{r} 10 \\ + 7 \\ \hline \end{array}$

6. **Write About It** Choose one of the equations above and explain how to find the teen total.

Challenge

Same Teen Totals

Add to find all of the totals. Ring the addition that has the same teen total as the equation.

1. $9 + 9 = \underline{18}$

10	10	10	10
+ 5	+ 8	+ 6	+ 9
15	18	16	19

2. $7 + 6 = \underline{13}$

10	10	10	10
+ 1	+ 2	+ 3	+ 6
11	12	13	16

3. $8 + 7 = \underline{15}$

10	10	10	10
+ 8	+ 5	+ 7	+ 6
18	15	17	16

4. $5 + 8 = \underline{13}$

10	10	10	10
+ 3	+ 6	+ 5	+ 8
13	16	15	18

5. $6 + 5 = \underline{11}$

10	10	10	10
+ 1	+ 3	+ 5	+ 7
11	13	15	17

6. **Write About It** Choose one of the equations above and explain how to find the teen total.

Answers will vary. Possible answer: For $6 + 5$ I know

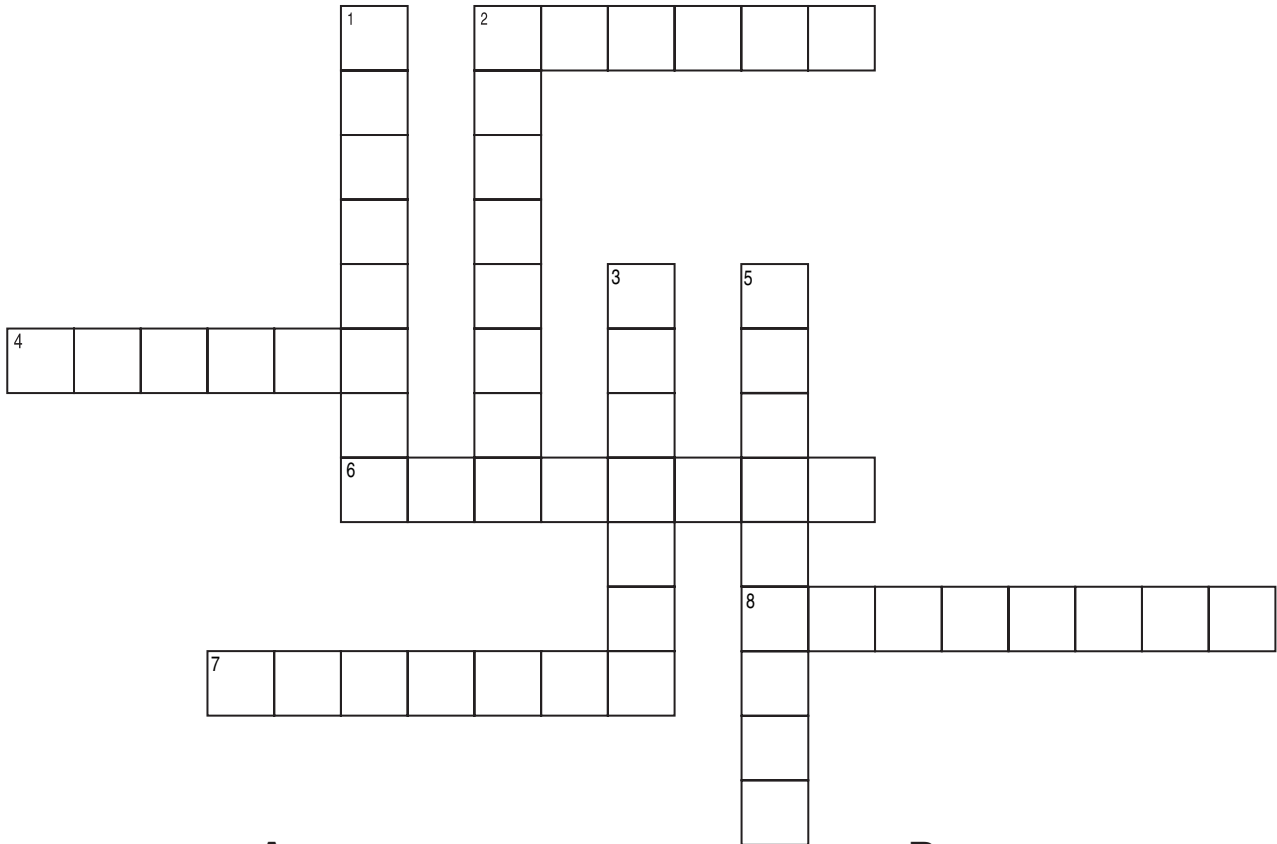
that I have 6 already and that 4 more makes 10. I have

one left and $10 + 1 = 11$.

Challenge

Teen Time

Write the totals in the equations below. Then write the word name for each total in the puzzle.



Across

2. $7 + 4 =$

4. $6 + 6 =$

6. $10 + 9 =$

7. $6 + 10 =$

8. $7 + 6 =$

Down

1. $6 + 8 =$

2. $9 + 9 =$

3. $9 + 6 =$

5. $9 + 8 =$

Challenge

Solve the Riddles, Write an Equation

Use the letters and numbers in the tables to solve each riddle. Then write an equation to show your answer is correct.

1. I am 9 more than G.
What letter am I? _____

A	16
B	9
C	14
D	11
E	8

2. I am 4 fewer than H.
What letter am I? _____

3. I am 1 more than J.
What letter am I? _____

F	12
G	7
H	13
I	5
J	10

4. I am 4 fewer than F.
What letter am I? _____

5. I am 1 fewer than D.
What letter am I? _____

Challenge

Solve the Riddles, Write an Equation

Use the letters and numbers in the tables to solve each riddle. Then write an equation to show your answer is correct.

1. I am 9 more than G.

What letter am I? A

$$7 + 9 = 16$$

2. I am 4 fewer than H.

What letter am I? B

$$13 - 4 = 9$$

3. I am 1 more than J.

What letter am I? D

$$10 + 1 = 11$$

4. I am 4 fewer than F.

What letter am I? E

$$12 - 4 = 8$$

5. I am 1 fewer than D.

What letter am I? J

$$11 - 1 = 10$$

A	16
B	9
C	14
D	11
E	8

F	12
G	7
H	13
I	5
J	10

Challenge

Complete the addition and subtraction equations. Use the same color to shade the boxes that have related addition and subtraction equations. Then write the missing equation in the last box.

$15 - 8 = \square$	$8 + 5 = \square$	$14 - 6 = \square$	$13 - \square = 7$
$17 - 9 = \square$	$7 + 8 = \square$	$\square - 8 = 5$	$\square + 6 = 14$
$7 + 6 = \square$	$8 + 9 = \square$	$15 - \square = 8$	$13 - \square = 8$
$14 - \square = 6$	$\square + 7 = 13$	$9 + \square = 17$	$8 + \square = 15$
$5 + \square = 13$	$\square + 8 = 14$	$\square - 7 = 6$	

Write About It How did the colors that you used help you quickly fill in the last box?

Challenge

Complete the addition and subtraction equations. Use the same color to shade the boxes that have related addition and subtraction equations. Then write the missing equation in the last box.

Sample colors shown.

$15 - 8 = \boxed{7}$ Green	$8 + 5 = \boxed{13}$ Red	$14 - 6 = \boxed{8}$ Orange	$13 - \boxed{6} = 7$ Blue
$17 - 9 = \boxed{8}$ Yellow	$7 + 8 = \boxed{15}$ Green	$\boxed{13} - 8 = 5$ Red	$\boxed{8} + 6 = 14$ Orange
$7 + 6 = \boxed{13}$ Blue	$8 + 9 = \boxed{17}$ Yellow	$15 - \boxed{7} = 8$ Green	$13 - \boxed{5} = 8$ Red
$14 - \boxed{8} = 6$ Orange	$\boxed{6} + 7 = 13$ Blue	$9 + \boxed{8} = 17$ Yellow	$8 + \boxed{7} = 15$ Green
$5 + \boxed{8} = 13$ Red	$\boxed{6} + 8 = 14$ Orange	$\boxed{13} - 7 = 6$ Blue	$17 - 8 = 9$

Write About It How did the colors that you used help you quickly fill in the last box?

Possible answer: The colors formed a pattern. I only had to look at the equations that were in boxes colored yellow to find which equation was missing.

Challenge

Magic Squares

Complete the magic squares by filling numbers in each square so that the sums of all rows, columns, and diagonals are the same. Then write the sum.

1.

8		6
		7
4	9	

Sum _____

2.

	2	
	6	8
5		3

Sum _____

3.

10		8
	7	
6		4

Sum _____

4.

	4	9
6		10
	12	

Sum _____

5. **Extend It** Create your own Magic Square.

Sum _____

Challenge

Magic Squares

Complete the magic squares by filling numbers in each square so that the sums of all rows, columns, and diagonals are the same. Then write the sum.

1.

8	1	6
3	5	7
4	9	2

Sum 15

2.

9	2	7
4	6	8
5	10	3

Sum 18

3.

10	3	8
5	7	9
6	11	4

Sum 21

4.

11	4	9
6	8	10
7	12	5

Sum 24

5. **Extend It** Create your own Magic Square.

12	5	10
7	9	11
8	13	6

Sum 27

Answers will vary.
Possible answer shown.

Challenge

What's Missing?

Look at these numbers.

9	5	4	7	3
1	6	2	8	10

Choose a number to make the pair of equations correct.

Write the number in the boxes.

1. $4 + \square = 10$ $10 - \square = 4$	2. $15 = \square + 7$ $\square = 15 - 7$	3. $17 - \square = 7$ $7 + \square = 17$
4. $12 = \square + 5$ $\square = 12 - 5$	5. $18 - \square = 9$ $9 + \square = 18$	6. $11 - \square = 9$ $9 + \square = 11$
7. $13 - 8 = \square$ $8 + \square = 13$	8. $10 = \square + 9$ $9 = 10 - \square$	9. $\square = 13 - 9$ $13 = 9 + \square$
	10. $6 = \square + 3$ $\square = 6 - 3$	

Write About It Was it easier for you to use subtraction or addition to find the missing partner? Why?

Challenge

What's Missing?

Look at these numbers.

9	5	4	7	3
1	6	2	8	10

Choose a number to make the pair of equations correct.

Write the number in the boxes.

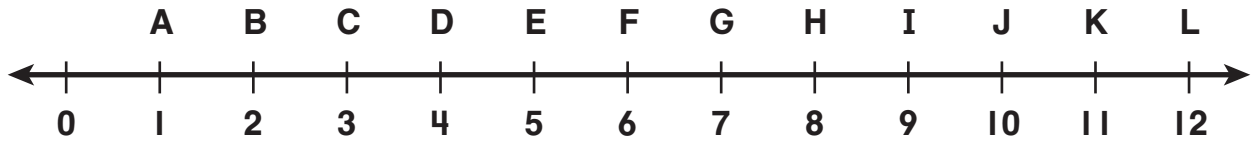
1. $4 + \boxed{6} = 10$ $10 - \boxed{6} = 4$	2. $15 = \boxed{8} + 7$ $\boxed{8} = 15 - 7$	3. $17 - \boxed{10} = 7$ $7 + \boxed{10} = 17$
4. $12 = \boxed{7} + 5$ $\boxed{7} = 12 - 5$	5. $18 - \boxed{9} = 9$ $9 + \boxed{9} = 18$	6. $11 - \boxed{2} = 9$ $9 + \boxed{2} = 11$
7. $13 - 8 = \boxed{5}$ $8 + \boxed{5} = 13$	8. $10 = \boxed{1} + 9$ $9 = 10 - \boxed{1}$	9. $\boxed{4} = 13 - 9$ $13 = 9 + \boxed{4}$
	10. $6 = \boxed{3} + 3$ $\boxed{3} = 6 - 3$	

Write About It Was it easier for you to use subtraction or addition to find the missing partner? Why?

Responses will vary.

Challenge

On Board with Numbers!



Use the number line to complete the train schedule.

Start	Stops	End
1. Station A	4	Station E
2. Station B	8	Station _____
3. Station C	4	Station _____
4. Station E	7	Station _____
5. Station F	6	Station _____
6. Station D	6	Station _____

Write an equation for each row of the schedule.

The first one is done for you.

1. $1 + 4 = 5$

4. _____

2. _____

5. _____

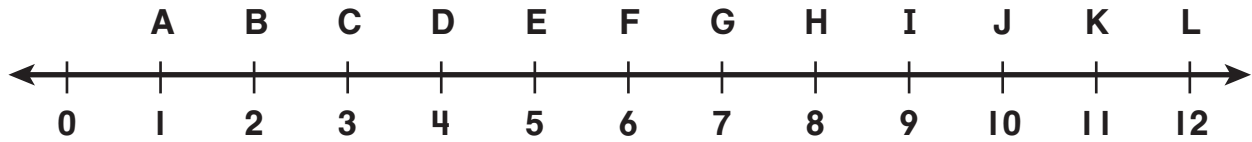
3. _____

6. _____

Write About It How could you tell without adding that the total of Row 5 will be greater than the total of Row 6?

Challenge

On Board with Numbers!



Use the number line to complete the train schedule.

Start	Stops	End
1. Station A	4	Station E
2. Station B	8	Station <u> J </u>
3. Station C	4	Station <u> G </u>
4. Station E	7	Station <u> L </u>
5. Station F	6	Station <u> L </u>
6. Station D	6	Station <u> J </u>

Write an equation for each row of the schedule.

The first one is done for you.

1. 1 + 4 = 5 4. 5 + 7 = 12
2. 2 + 8 = 10 5. 6 + 6 = 12
3. 3 + 4 = 7 6. 4 + 6 = 10

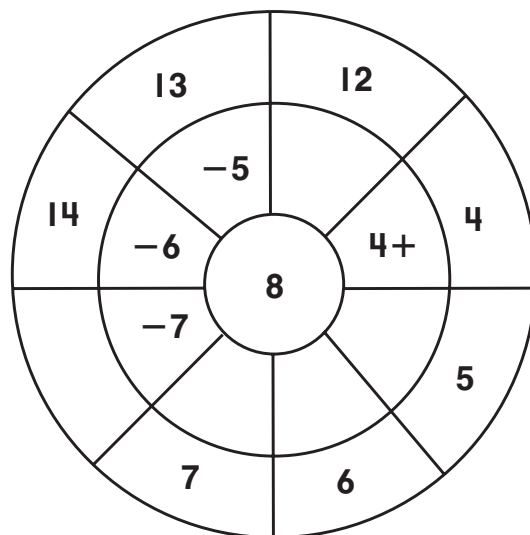
Write About It How could you tell without adding that the total of Row 5 will be greater than the total of Row 6?

The second number is the same in both addition sentences,
but the first number is greater in Row 5.

Challenge

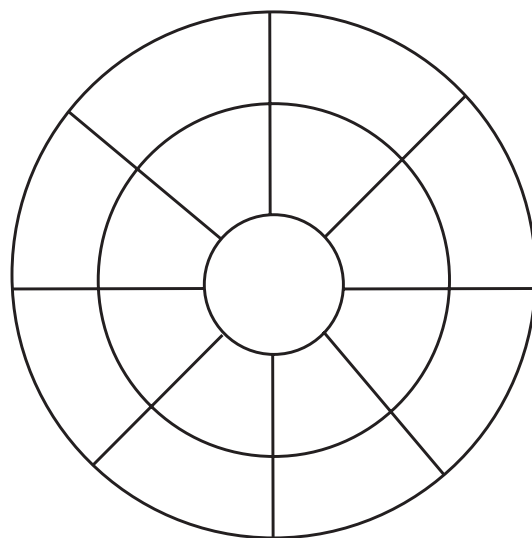
Equation Chain Wheels

1. Complete this equation chain wheel.



2. Write an equation chain that equals 8 using the expressions in the wheel.

3. Choose a number for the middle.
Build your own equation chain wheel.

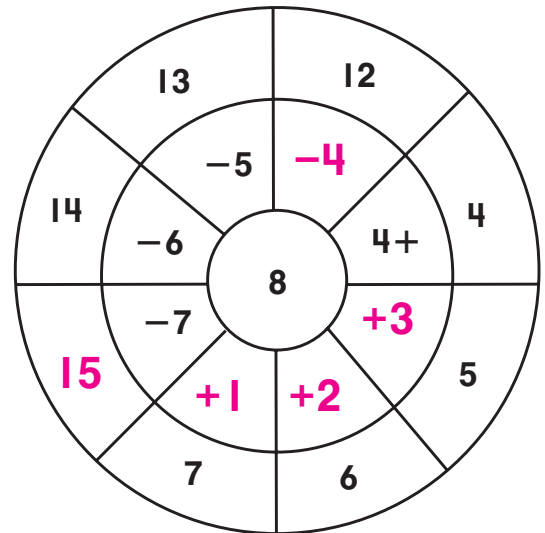


4. Write an equation chain for your wheel.

Challenge

Equation Chain Wheels

1. Complete this equation chain wheel.



2. Write an equation chain that equals 8 using the expressions in the wheel.

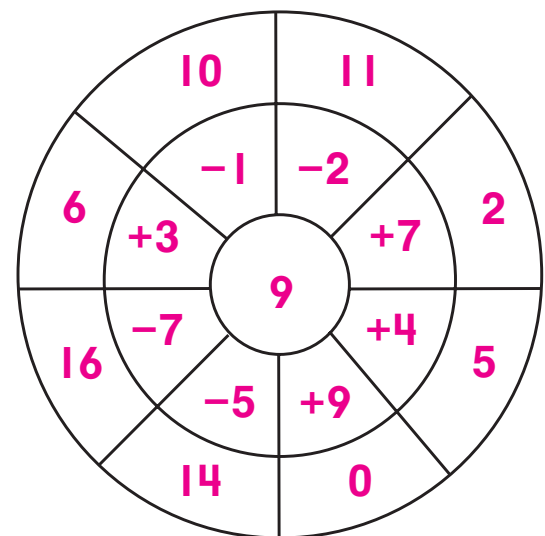
$$8 = 4 + 4 = 5 + 3 = 6 + 2 =$$

$$7 + 1 = 15 - 7 = 14 - 6 = 13 - 5 =$$

$$12 - 4$$

3. Choose a number for the middle.
Build your own equation chain wheel.

Sample answers shown.



4. Write an equation chain for your wheel.

Sample answers shown.

$$9 = 11 - 2 = 2 + 7 = 5 + 4 = 0 + 9 =$$

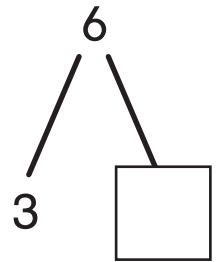
$$14 - 5 = 16 - 7 = 6 + 3 = 10 - 1$$

Challenge

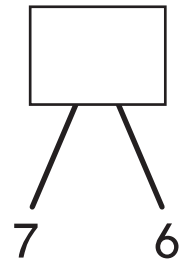
Math Mountain Connections

Complete each Math Mountain and write all of the possible equations. Be careful—some Math Mountains only have two equations!

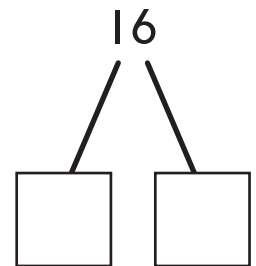
1. _____



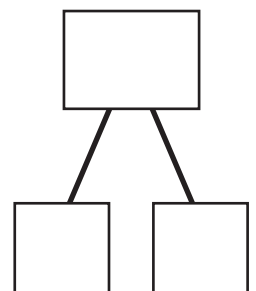
2. _____



3. _____



4. **Extend It** Look at these numbers: 6 11 5. Draw a Math Mountain for these numbers. Then write as many equations for that Math Mountain as you can.

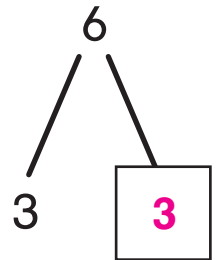


Challenge

Math Mountain Connections

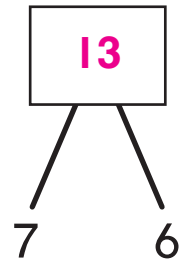
Complete each Math Mountain and write all of the possible equations. Be careful—some Math Mountains only have two equations!

1. $6 - 3 = 3$ $3 + 3 = 6$



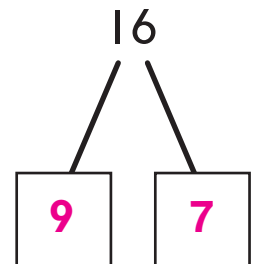
2. $7 + 6 = 13$ $13 - 7 = 6$

$6 + 7 = 13$ $13 - 6 = 7$



3. $7 + 9 = 16$ $16 - 7 = 9$

$9 + 7 = 16$ $16 - 9 = 7$



Answers may vary.

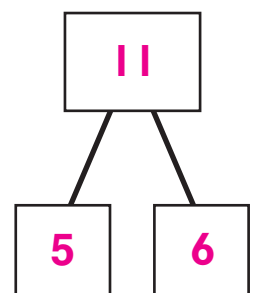
4. **Extend It** Look at these numbers: 6 11 5. Draw a Math Mountain for these numbers. Then write as many equations for that Math Mountain as you can.

$5 + 6 = 11$

$6 + 5 = 11$

$11 - 6 = 5$

$11 - 5 = 6$

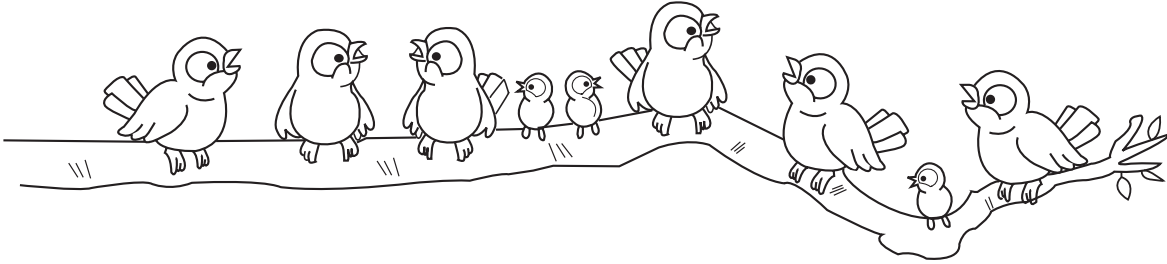


Challenge

Subtract All, Some, or None

Write an equation to solve each question.

Use a math drawing to help you.



There are 6 large birds on the branch.

There are 3 small birds on the branch.

1. What if all the birds fly away?
How many birds are left?

2. What if the large birds fly away?
How many birds are left?

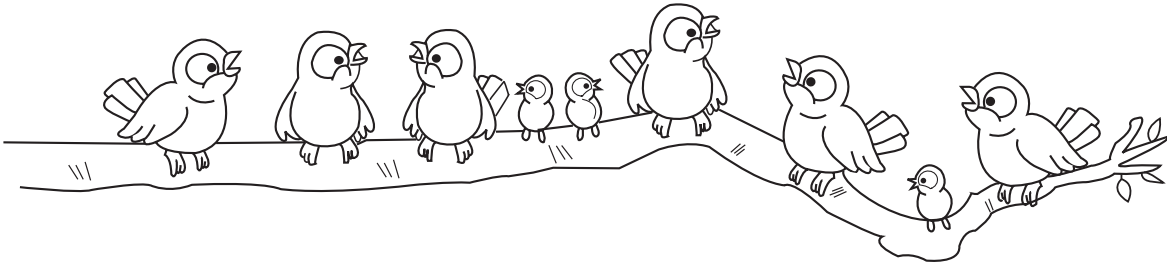
3. What if no birds fly away?
How many birds are left?

Challenge

Subtract All, Some, or None

Write an equation to solve each question.

Use a math drawing to help you.



There are 6 large birds on the branch.

There are 3 small birds on the branch.

1. What if all the birds fly away?
How many birds are left?

$$9 - 9 = 0$$



2. What if the large birds fly away?
How many birds are left?

$$9 - 6 = 3$$



3. What if no birds fly away?
How many birds are left?

$$9 - 0 = 9$$



Challenge

How Do the Scores Compare?

The table shows how many points each team scored on Field Day. Use the table to answer the questions.

Write $<$ or $>$ in the \bigcirc to compare the number of points scored by the teams.

- Lions \bigcirc Cheetahs
- Bears \bigcirc Wolves
- Cheetahs \bigcirc Bears
- Lions \bigcirc Tigers

Team	Points Scored
Lions	38
Tigers	42
Bears	26
Cheetahs	36
Wolves	27

Compare the points scored. Write the name of another team to make the statement true.

Wolves $\bigcirc >$ _____

Lions $\bigcirc <$ _____

Write About It Suppose another team, the Rhinos, played. They got a number of points greater than the Lions but a number of points less than the Tigers.

Write a possible score. Tell how you got the score.

Challenge

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Lions \bigcirc Cheetahs
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 Cheetahs \bigcirc Bears
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Wolves	27

Compare the points scored. Write the name of another team to make the statement true.

Wolves \bigcirc Bears Lions \bigcirc Tigers

Write About It Suppose another team, the Rhinos, played. They got a number of points greater than the Lions but a number of points less than the Tigers. Write a possible score. Tell how you got the score.

Possible response: 40 is the score. I know that 40 is less than 42 and 40 is greater than 38.

Challenge

Pick a Number to Add

Write the numbers 1, 2, 3, 4, 5, 6, 7, 8, 9 on slips of paper.

Put your slips of paper in a bag.

Pick a number from the bag. Write it in the table.

Put the number back. Pick 2 more. Write them in the table. Then add.

Number 1	Number 2	Number 3	Total

Write About It Look at any row in your table. What strategy did you use to add the three numbers? Why did you use that strategy?

Challenge**Pick a Number to Add**

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table. Then add.

Numbers and totals will vary. Check children's work.

Number 1	Number 2	Number 3	Total

Write About It Look at any row in your table. What strategy did you use to add the three numbers? Why did you use that strategy?

Answers will vary. Check children's work.
