

Extending Addition and Subtraction

Adding Cents

You need

- a handful of pennies



STEP 1 Counting

How much money do you have? _____¢

How did you count the pennies? _____

STEP 2 Adding

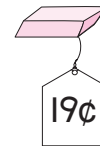
Add 3 nickels to the pennies.

How much money do you have now? _____¢

Explain how you found the total. _____

STEP 3 Buying

Which of these items can you buy with your money? Explain.







School-Home Connection

Dear Family,

Today we started Chapter 14 in *Think Math!* In this chapter, I will learn different ways to add and subtract. I will learn how to make change from a dollar and to solve Cross Number Puzzles that have more than one solution. There are NOTES on the Lesson Activity Book pages to explain what I am learning every day.

Here are some activities for us to do together at home. These activities will help me learn to create reasonable story problems and to make change.

Love,

Family Fun

Story Time

Work with your child to create story problems.

- Create two story problems. Make one problem a silly or unreasonable story and the other a reasonable story. For example,

**Jack is twice as tall as his father.
His father is 8 feet tall.** (unreasonable)

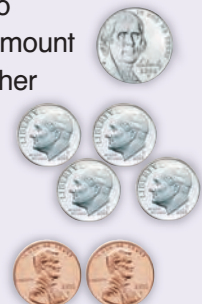
**Jack is half as tall as his father.
His father is 6 feet tall.** (reasonable)

- Discuss what makes each story reasonable or unreasonable.
- You may wish to create more stories like these and have your child make a book of math stories. Your child can draw pictures to go with each story and explain how to solve each one.

Money, Money, Money

Work with your child to practice identifying coins and making change from a dollar.

- You will need one dollar bill, pennies, nickels, and dimes. Write various amounts of money, less than a dollar, each on a separate slip of paper.
- Give your child the dollar bill. Have your child select one of the slips of paper. Ask your child to identify the amount.
- Have your child use the dollar to pretend to buy an item for the amount on the slip of paper. Work together to figure out how much change your child should get.



Adding Number Sentences

NCTM Standards 1, 2, 6, 7, 8, 9, 10

Write the missing numbers and signs.

You may use
counters or blocks to
help you find sums.



1.

7	+	6	=	13
7	+	4	=	□
14	+	□	=	□

2.

10	+	6	=	□
10	+	7	=	□
□	○	□	=	□

3.

20	+	8	=	□
15	+	2	=	□
□	○	□	=	□



NOTE: Your child is exploring how to add two addition sentences. You may wish to ask your child to explain how he or she solved one of the problems above.



Write the missing numbers and signs.

4.

$$\begin{array}{r} \boxed{13} + \boxed{8} = \boxed{} \\ \boxed{7} + \boxed{8} = \boxed{} \\ \hline \boxed{20} \bigcirc \boxed{} = \boxed{} \end{array}$$

5.


$$\begin{array}{r} \boxed{14} + \boxed{6} = \boxed{} \\ \boxed{14} + \boxed{5} = \boxed{} \\ \hline \boxed{} \bigcirc \boxed{} = \boxed{} \end{array}$$

6.

$$\begin{array}{r} \boxed{10} + \boxed{} = \boxed{19} \\ \boxed{} + \boxed{2} = \boxed{32} \\ \hline \boxed{} \bigcirc \boxed{} = \boxed{} \end{array}$$

7.

$$\begin{array}{r} \boxed{} + \boxed{16} = \boxed{19} \\ \boxed{} + \boxed{4} = \boxed{32} \\ \hline \boxed{} \bigcirc \boxed{} = \boxed{} \end{array}$$

-  8. Problems 6 and 7 show two ways to find $19 + 32$. Which way was easier for you? Explain.
-

Challenge

9. Show two ways to find $28 + 37$.

$$\begin{array}{r} \boxed{} + \boxed{} = \boxed{28} \\ \boxed{} + \boxed{} = \boxed{37} \\ \hline \boxed{} = \boxed{} \end{array}$$

$$\begin{array}{r} \boxed{} + \boxed{} = \boxed{28} \\ \boxed{} + \boxed{} = \boxed{37} \\ \hline \boxed{} = \boxed{} \end{array}$$

Making Addition Easier

NCTM Standards 1, 2, 6, 7, 8, 9, 10

Write the missing numbers and signs.

To add 8 and 17, think of 8 as 10 - 2 and think of 17 as 20 - 3.



1.

	10	-	2	=	8
+	20	-	3	=	
	30	-	5	=	

2.

	20	-	1	=	
+	20	-	4	=	
				=	

3.

	30	-	2	=	
+	20	-	4	=	
				=	



NOTE: Your child is learning to break apart numbers to make them easier to add. You might ask your child how to make $28 + 19$ easier to add.

Write the missing numbers and signs.

4. $\boxed{39} - \boxed{0} = \boxed{}$
 $\boxed{30} - \boxed{2} = \boxed{}$

 $\boxed{69} \bigcirc \boxed{} = \boxed{}$

5. $\boxed{40} - \boxed{1} = \boxed{}$
 $\boxed{30} - \boxed{2} = \boxed{}$

 $\boxed{} \bigcirc \boxed{} = \boxed{}$

6. $\boxed{30} - \boxed{3} = \boxed{}$
 $\boxed{70} - \boxed{2} = \boxed{}$

 $\boxed{} \bigcirc \boxed{} = \boxed{}$

7. $\boxed{27} - \boxed{} = \boxed{27}$
 $\boxed{70} - \boxed{2} = \boxed{}$

 $\boxed{} \bigcirc \boxed{} = \boxed{}$

Challenge

8. Show two ways to find $28 + 36$.

$$\boxed{} - \boxed{} = \boxed{28}$$
$$\boxed{} - \boxed{} = \boxed{36}$$

$$\boxed{} \bigcirc \boxed{} = \boxed{}$$

$$\boxed{} - \boxed{} = \boxed{28}$$
$$\boxed{} - \boxed{} = \boxed{36}$$

$$\boxed{} \bigcirc \boxed{} = \boxed{}$$

Modeling Number Sentences and Stories

NCTM Standards 1, 2, 6, 7, 8, 9, 10

Write the number sentence and answer the question.

1. There are 7 children in the tent.

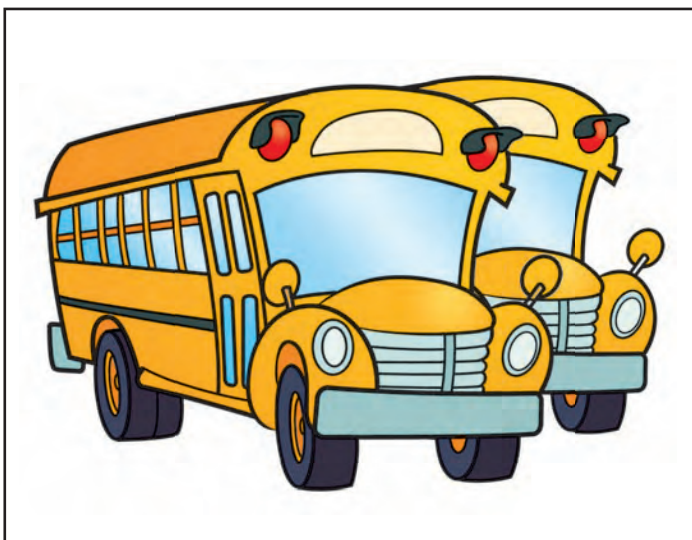


How many children are camping?

$$\boxed{7} + \boxed{3} = \boxed{}$$

_____ children

2. There are 23 children on each bus.



How many children are on the buses?

$$\boxed{} + \boxed{} = \boxed{}$$

_____ children



NOTE: Your child is learning how to solve problems in different ways. You might ask your child to explain how to solve problem 2.

Read the problem. Write the number sentence and answer each question.

It took Devi 14 days to read 8 books.
Then he read 5 more books in 1 week.



3. How many books did Devi read?


$$\square + \square = \square$$

_____ books

4. How many days did it take?

$$\square + \square = \square$$

_____ books

 5. Write your own problem.
Write the number sentence to show how to solve it.

$$\square + \square = \square$$

Problem Solving

Michelle has 3 more red marbles than blue ones.
She has 25 marbles.

6. How many are blue?

_____ marbles are blue.

7. How many are red?

_____ marbles are red.

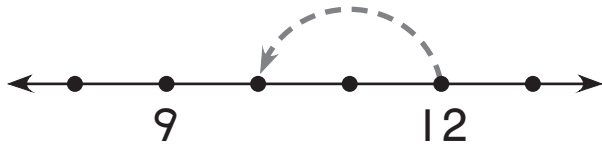


Making Subtraction Easier

NCTM Standards 1, 2, 6, 7, 8, 9, 10

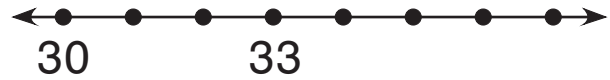
Draw the jump.
Complete the number sentence.

1.



$$\boxed{12} - \boxed{2} = \boxed{10}$$

2.



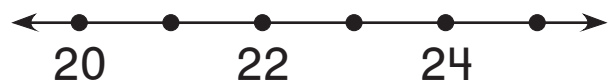
$$\boxed{36} - \boxed{} = \boxed{30}$$

3.




$$\boxed{} - \boxed{4} = \boxed{70}$$

4.



$$\boxed{25} - \boxed{5} = \boxed{}$$

-  5. Look at the number sentences in Problems 1 to 4.
How are they the same?



NOTE: Your child is learning different ways to make subtraction easier. You might ask your child to explain how he or she solved Problem 5.

Write the number sentence and answer the question.

6. Hector had 44¢. He spent a dime.
How much money did he have left?

$$\square - \square = \square$$

_____¢

-
7. Katy's hair is 20 inches long.
Julie's hair is 9 inches long.

Who has longer hair? _____

How much longer is her hair?

$$\square - \square = \square$$

_____ inches

Problem Solving

8. Champ, Spot, and Rover are dogs.
Champ weighs 3 pounds more than Spot.
Champ weighs 8 pounds less than Rover.
Champ weighs 17 pounds.
How much do the other dogs weigh?

Spot weighs _____ pounds.

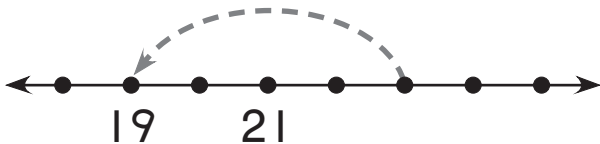
Rover weighs _____ pounds.

Subtraction That Changes the Tens Digit

NCTM Standards 1, 2, 6, 7, 8, 9, 10

Draw the jump.
Complete the number sentence.

1.



$$\boxed{23} - \boxed{4} = \boxed{19}$$

2.



$$\boxed{11} - \boxed{} = \boxed{8}$$

3.



$$\boxed{42} - \boxed{6} = \boxed{}$$

4.



$$\boxed{} - \boxed{5} = \boxed{29}$$

5. Write the number sentence and answer the question.

Meg finished her homework in 43 minutes.

Kali was 8 minutes faster than Meg.

How long did Kali take?

$$\boxed{} - \boxed{} = \boxed{}$$

_____ minutes



NOTE: Your child is learning to subtract larger numbers in different ways. You might ask your child to explain how he or she solved Problem 5.

Write the number sentence and answer the question.

6. Tina's turtle weighs 22 ounces.

Tony's turtle weighs 5 ounces less.

How much does Tony's turtle weigh? _____ ounces

$$\square - \square = \square$$

7. It was 74°F outside in the morning.

It got 7°F colder by lunch time.

What was the temperature at lunch? _____°F

$$\square - \square = \square$$

Problem Solving

8. Ann had 26 shells.

Ann gave half of them to Bill.

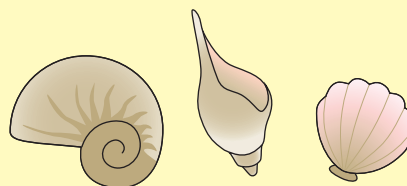
Then she gave 8 to Cindy.

How many shells do they each have now?

Bill has _____ shells.

Cindy has _____ shells.

Ann has _____ shells.



Change from a Dollar

NCTM Standards 1, 2, 6, 7, 8, 9, 10

Write the amount. Then write the change.

1. Jan spent this money.



5 ¢

She paid with a dollar bill.

She got 95 ¢ change.

2. Don spent this money.



_____ ¢

He paid with a dollar bill.

He got _____ ¢ change.

3. Kelly spent this money.



_____ ¢

She paid with a dollar bill.

She got _____ ¢ change.



NOTE: Your child is learning to make change from one dollar.

You might ask your child how much change you get from a dollar when you buy a ball for 40¢.



Write the change. Then write the amount spent.
Use blocks to help.

4. This is my change from \$1.



21 ¢

I spent 79 ¢.

5. This is my change from \$1.



_____ ¢

I spent _____ ¢.

6. This is my change from \$1.



_____ ¢

I spent _____ ¢.

7. This is my change from \$1.



_____ ¢

I spent _____ ¢.

8. This is my change from \$1.



_____ ¢

I spent _____ ¢.

9. This is my change from \$1.



_____ ¢

I spent _____ ¢.

Challenge

10. I have two coins.
How much money could I have?

Is This Story Reasonable?

NCTM Standards 1, 2, 6, 7, 8, 9, 10

Complete the story. Is it reasonable?
Circle *yes* or *no*.

1. Jack is twice as tall as his mother.
His mother is 8 feet tall.

Jack is 16 feet tall.

Is this story reasonable? yes no

-
2. It took Kelly 15 minutes to eat lunch.
It took Young 10 minutes to eat lunch.

_____ ate faster than _____.

Is this story reasonable? yes no

-
3. Munch and Chomp are monkeys.
Munch ate 25 bananas in one week.
Chomp ate 13 bananas that same week.

Together the monkeys ate _____ bananas.

_____ ate _____ more bananas than _____.

Is this story reasonable? yes no



NOTE: Your child is learning to decide whether a story is likely or unlikely to happen. You may wish to ask your child to tell a reasonable and an unreasonable story.

 4. Write a reasonable story for $24 - 6$.

 5. Write an unreasonable story for $24 - 6$.

Problem Solving

Complete the story. Is it reasonable?

Circle *yes* or *no*.

6. Larry's lizard ate _____ pounds of crickets,
_____ pounds of worms, and _____ pounds
of vanilla ice cream.

The lizard ate _____ pounds of food.

Is this story reasonable?

yes

no

Solving Puzzles with Many Solutions

NCTM Standards 1, 2, 6, 7, 8, 9, 10

Solve each puzzle.

1.

10		
	20	30
		60

2.

	3	43
30		
		78

3.

25	25	
13	12	

4.

93		93
7		
	18	



NOTE: Your child is learning to solve Cross Number Puzzles. Some puzzles have more than one solution. You might ask your child to find a different way to solve Problem 5.

5. Find two ways to solve the puzzle.

		50
		25
30	45	

		50
		25
30	45	

Challenge

What numbers are missing?

6.

		12
	14	
		26

7.

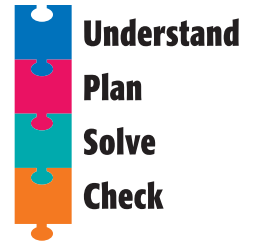
		0
15	20	



Problem Solving Strategy

Draw a Picture

NCTM Standards 1, 2, 4, 6, 7, 8, 9, 10



1. Mr. Frank was in his office on the 12th floor.
He went down 8 floors to the café.
Then he went up 11 floors to
the roof garden.

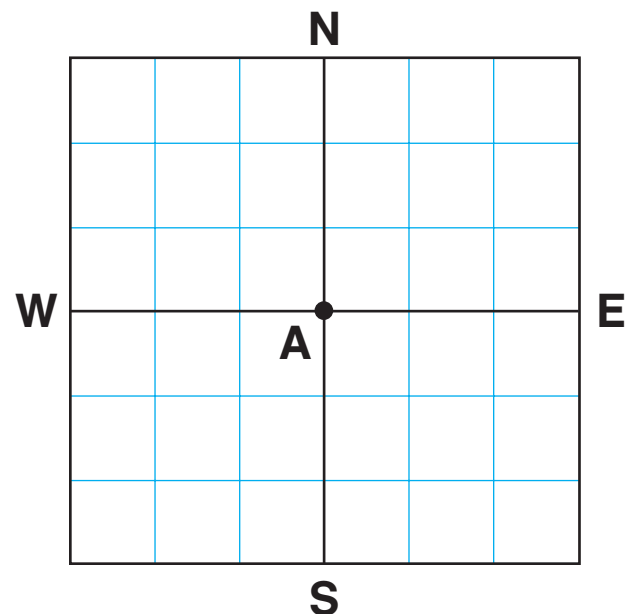
What floor is the café on?

Floor _____

What floor is the garden on?

Floor _____

2. I started at point A.
I walked 1 block north.
I turned left.
I walked west for 2 blocks.
Then I walked 1 block south
to point B.
Sketch my path.



How many blocks is it if you
walk straight from A to B?

_____ blocks



NOTE: Your child is using the strategy, *draw a picture*, to solve problems. Ask your child to explain how to solve the problems on this page.

Problem Solving Test Prep

1. Carlos saves 1 dime every day for 2 weeks.

How much will he save?

- (A) 10¢ (C) 70¢
(B) 20¢ (D) \$1.40

2. Ben bought 3 packs of trading cards.

Each pack has 10 cards. How many cards did Ben buy?

- (A) 3 (C) 30
(B) 10 (D) 36

Show What You Know

3. Jadelyn has 14 toy animals. They are brown, white, or black.

She has more brown animals than white ones.

She has more white ones than black ones.

How many of each color could she have?

Explain.

4. How many ways can you add two numbers to get a sum of 12?

_____ ways

Explain.

Write the missing numbers and signs. Lessons 1, 2

1.

$$\begin{array}{r} \boxed{20} \quad \bigcirc + \quad \boxed{6} \quad \bigcirc = \quad \boxed{} \\ + \quad \boxed{10} \quad \bigcirc + \quad \boxed{} \quad \bigcirc = \quad \boxed{17} \\ \hline \boxed{} \quad \bigcirc \quad \boxed{} \quad \bigcirc = \quad \boxed{} \end{array}$$

2.

$$\begin{array}{r} \boxed{50} \quad \bigcirc - \quad \boxed{} \quad \bigcirc = \quad \boxed{47} \\ + \quad \boxed{40} \quad \bigcirc - \quad \boxed{} \quad \bigcirc = \quad \boxed{39} \\ \hline \boxed{} \quad \bigcirc \quad \boxed{} \quad \bigcirc = \quad \boxed{} \end{array}$$

Write the number sentence and answer the question. Lessons 3, 4, 5

3. Avra walked 15 minutes in the morning.
She walked 12 minutes in the afternoon.

How many minutes did Avra walk?

$$\boxed{} \quad \boxed{} = \boxed{}$$

_____ minutes

4. Ben has 29¢. Ron has 12¢.
How much more money does
Ben have than Ron?

$$\boxed{} - \boxed{} = \boxed{}$$

_____ ¢

5. Write the change. Then write the amount spent. Lesson 6

This is my change from \$1.



_____¢ I spent _____¢.

6. Write a reasonable story for $20 + 24$ _____. Lesson 7

7. Find two ways to solve the puzzle. Lesson 8

		60
		30
45	45	

		60
		30
45	45	

Problem Solving Lesson 9

8. Carlos uses toothpicks to make triangles. He uses a different toothpick for each side. How many toothpicks does he need to make 4 triangles?

_____ toothpicks