Entering Grade 2 Summer Reading:

This summer you are asked to read 10 books. The books must fit into the following categories. Write down the title of each book and the number of pages. Color in the face which reflects your opinion of the book. Choose your favorite book from this for the Book Jacket activity below.

10 Books from the categories below

Type of Book	Title of Book	# of pages	Your Opinion
Fiction Books	1._____ 2._____ 3._____ 4._____	____ ____ ____ ____	☺ ☹ ☺ ☹ ☺ ☹ ☺ ☹
Non-fiction Books	5._____ 6._____ 7._____	____ ____ ____	☺ ☹ ☺ ☹ ☺ ☹
Books with Poetry	8._____ 9._____ 10._____	____ ____ ____	☺ ☹ ☺ ☹ ☺ ☹

Summer Book Jacket Activity

Draw an original book jacket from the book you choose from one of the ten books you read and are listed on the chart. The purpose of the book jacket is to give the reader an idea about what the book is about. After designing and coloring your book jacket you will be asked to explain your design in one or two sentences.

Book Jacket

Illustrated by:

(Student's Name)

Algebra • Ways to Expand Numbers

Essential Question How can you write a two-digit number in different ways?

Model and Draw

There are different ways to think about a number.

_____ tens __7__ ones

$$80 + 7$$
$$\overline{87}$$
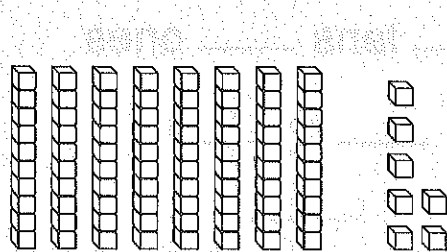
8 tens and 7 ones is the same as 80 plus 7.

Share and Show

Math Board

Write how many tens and ones.
Write the number in two different ways.

1.

____ tens ____ ones

____ + ____

____

2.

____ tens ____ ones

____ + ____

____
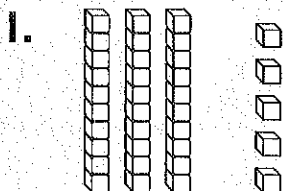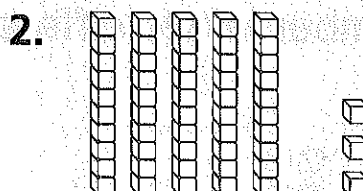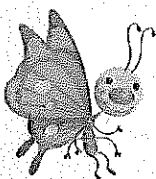
Math Talk Does the 7 in this number show 7 or 70? Explain.
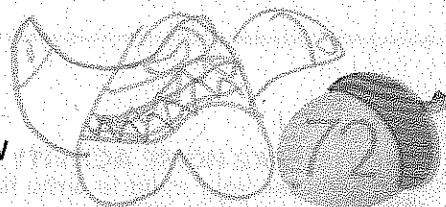
On Your Own

Write how many tens and ones.
Write the number in two different ways.

3.

_____ tens _____ ones

_____ + _____

_____

4.
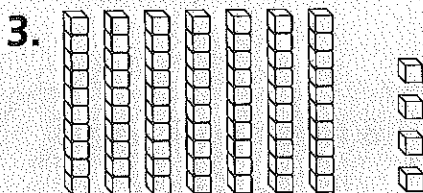
_____ tens _____ ones

_____ + _____

_____

PROBLEM SOLVING

5. Draw the same number using only tens.
Write how many tens and ones.
Write the number in two different ways.
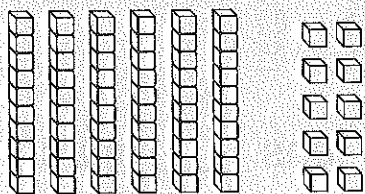
_____ tens _____ ones

_____ + _____

_____

_____ tens _____ ones

_____ + _____

_____

Name _____

Identify Place Value

Essential Question How can you use place value to understand the value of a number?

Model and Draw

The **1** in **125** means 1 hundred.
The **2** in **125** means 2 tens.
The **5** in **125** means 5 ones.
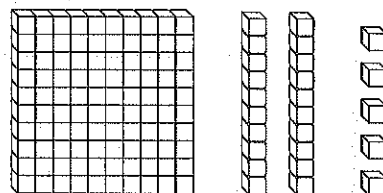
125

Draw ☐ for ▦

Draw | for |

Draw ₀ for ₒ
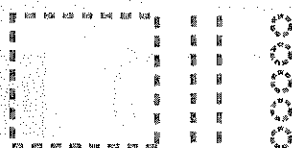
hundreds	tens	ones
1	2	5

Share and Show
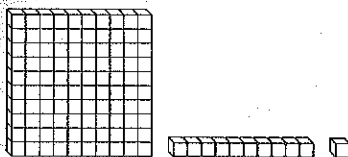
Use your MathBoard and ▦ ▭ ▫
to show the number.
Draw to complete the quick picture. Write how many hundreds, tens, and ones.
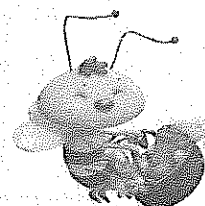
THINK
106 has no tens.

1.

106
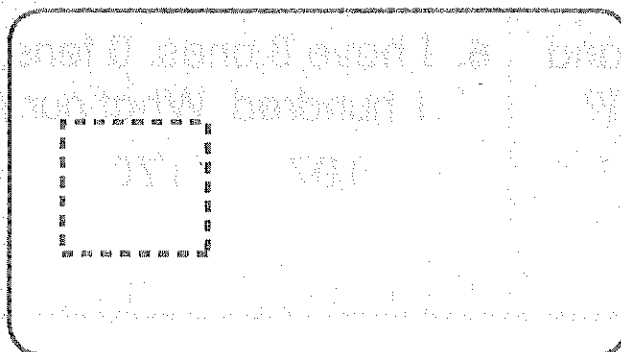
hundreds	tens	ones
___	___	___
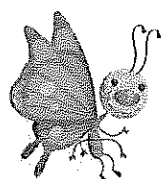
Math Talk How is the 1 in 187 different from the 1 in 781?

On Your Own
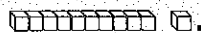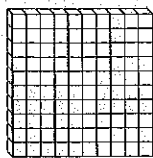
Use your MathBoard and ▦ ▭ ▫.
Draw to complete the quick picture.
Write how many hundreds, tens, and ones.

2.

170
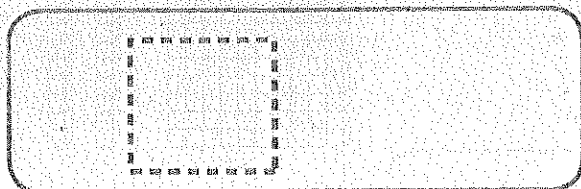
hundreds	tens	ones
_____	_____	_____

3.

143
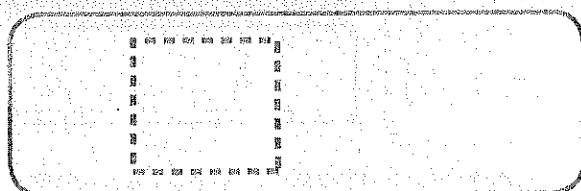
hundreds	tens	ones
_____	_____	_____

4.

121
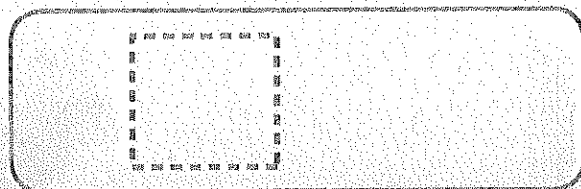
hundreds	tens	ones
_____	_____	_____

PROBLEM SOLVING

Circle your answer.

5. I have 1 hundred, 9 tens, and 9 ones. What number am I?

99   100   199

6. I have 3 ones, 0 tens, and 1 hundred. What number am I?

107   170   103
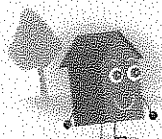
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Use Place Value to Compare Numbers

Essential Question How can you use place value to compare two numbers?

Model and Draw

Use these symbols to compare numbers.

> is greater than
< is less than
= is equal to

45   46

I want to eat the greater number.

45 < 46
45 is less than 46.

Compare 134 and 125.

First compare hundreds.
One hundred is equal to one hundred.
100 = 100
If the hundreds are equal, compare the tens. 30 is greater than 20.
134 > 125

Share and Show   Math Board

Write the numbers and compare. Write >, <, or =.

1. 159 > 155

2. ___ ◯ ___
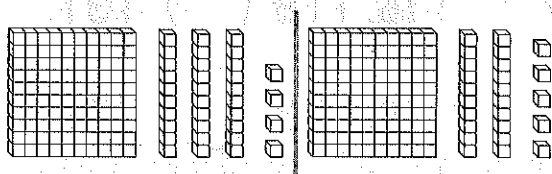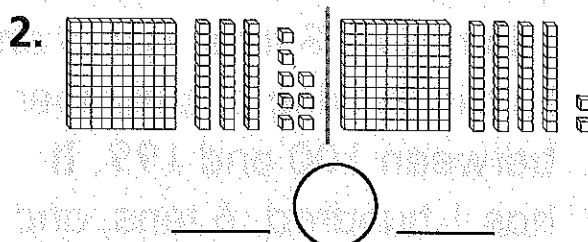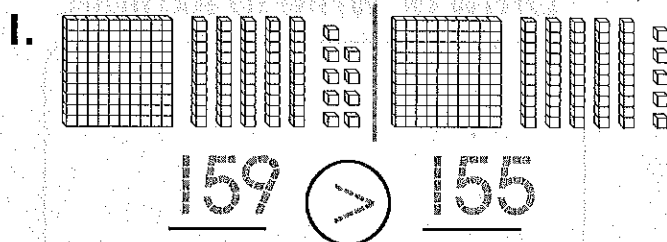
Compare the numbers using >, <, or =.

3. 187 ◯ 168

4. 165 ◯ 159

5. 127 ◯ 141

Math Talk   Compare 173 and 177. Did you have to compare all the digits? Why or why not?

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On Your Own

Write the numbers. Compare. Write >, <, or = .
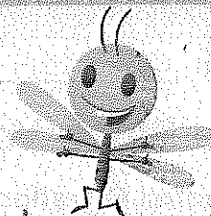
6.

_____ ◯ _____
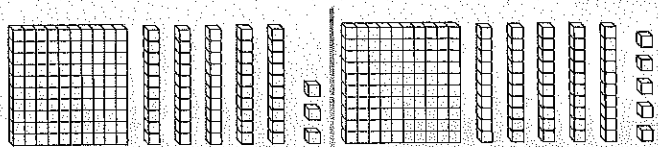
7.

_____ ◯ _____
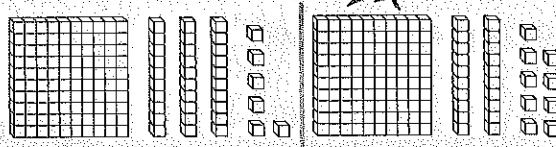
Compare the numbers using >, <, or = .

8. 143 ◯ 143

9. 162 ◯ 157

10. 185 ◯ 188

11. 124 ◯ 129

12. 189 ◯ 195

13. 135 ◯ 135

14. 173 ◯ 164

15. 123 ◯ 117

16. 118 ◯ 131

17. 155 ◯ 145

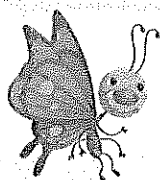18. 181 ◯ 181

19. 192 ◯ 179

20. 122 ◯ 129

21. 166 ◯ 177

22. 154 ◯ 154

PROBLEM SOLVING REAL WORLD

23. Antonio is thinking of a number between 100 and 199. It has 1 hundred, 3 tens, and 6 ones. Kim is thinking of a number between 100 and 199. It has 1 hundred, 6 tens, and 3 ones. Who is thinking of a greater number?

Draw or write to explain.

_____ is thinking of a greater number.

TAKE HOME ACTIVITY • Choose two numbers between 100 and 199 and have your child explain which number is greater.

Name _____

Concepts and Skills

Write how many tens and ones.
Write the number in two ways.

1.

_____ tens and _____ ones

_____ + _____

_____

2.
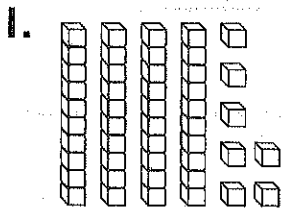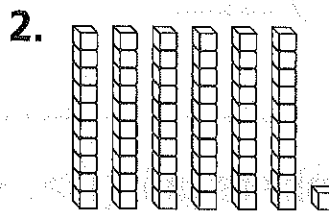
_____ tens and _____ one

_____ + _____

_____

Use your MathBoard and ▦ ▫.
Draw to complete the quick picture.
Write how many hundreds, tens, and ones.

3. 154

hundreds	tens	ones
_____	_____	_____

4. 128
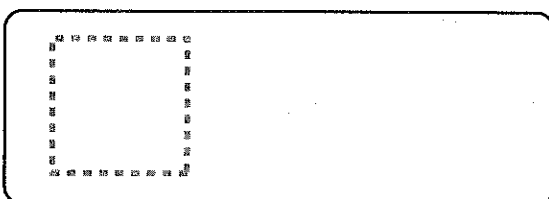
hundreds	tens	ones
_____	_____	_____

Write the numbers and compare. Write $>$, $<$, or $=$.

5.

___ ◯ ___

6.

___ ◯ ___
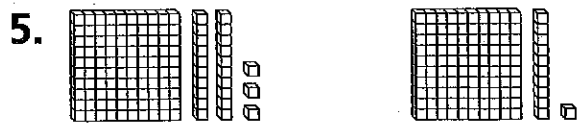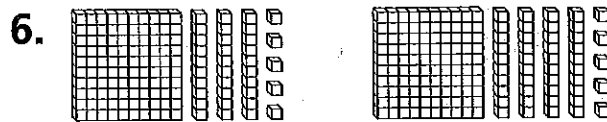
Compare the numbers using $>$, $<$, or $=$.

7. 175 ◯ 175
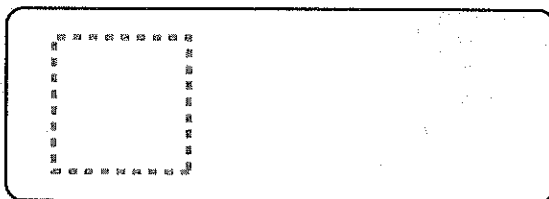
8. 163 ◯ 173

9. 189 ◯ 188

10. 142 ◯ 158

11. 157 ◯ 157

12. 185 ◯ 180

13. Which comparison is correct?

- ◯ 132 > 131

- ◯ 131 = 132

- ◯ 131 > 132

Algebra • Addition Function Tables

Essential Question How can you follow a rule to complete an addition function table?
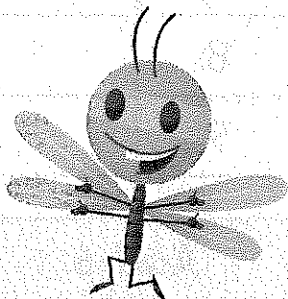
Model and Draw

The rule is Add 9.
Add 9 to each number.

Add 9	
7	16
8	17
9	18

Share and Show

Math Board

Follow a rule to complete the table.

1.

Add 3	
7	
8	
9	

2.

Add 4	
6	
7	
8	

3.

Add 5	
5	
7	
9	

4.

Add 8	
5	
7	
9	

5.

Add 7	
6	
8	
9	

6.

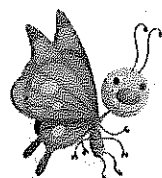| Add 6	
6	
8	
9	

Math Talk Look at Exercise 4. How does the rule help you see a pattern?

On Your Own

Follow a rule to complete the table.

7.

Add 7	
7	
8	
9	

8.

Add 4	
7	
8	
9	

9.

Add 5	
7	
8	
9	

10.

Add 8	
4	
6	
8	
9	

11.

Add 3	
3	
5	
7	
9	

12.

Add 6	
6	
7	
8	
9	

PROBLEM SOLVING REAL WORLD

13. Solve. Complete the table.

Tom is 8 years old.
Julie is 7 years old.
Carla is 4 years old.

How old will each child
be in 4 years?

Tom	8	
Julie	7	
Carla	4	

TAKE HOME ACTIVITY • Copy Exercise 12 and change the numbers in the left column to 9, 7, 5, and 3. Have your child complete the table and explain how he or she used a rule to solve the problem.

P258 two hundred fifty-eight

Algebra • Subtraction Function Tables

Essential Question How can you follow a rule to complete a subtraction function table?

Model and Draw

The rule is Subtract 7. Subtract 7 from each number.

Subtract 7	
14	7
15	8
16	9

Share and Show

Follow a rule to complete the table.

1.
Subtract 3	
9	
10	
11	

2.
Subtract 4	
6	
8	
10	

3.
Subtract 5	
6	
8	
10	

4.
Subtract 8	
9	
11	
13	

5.
Subtract 7	
12	
13	
14	

6.
Subtract 6	
6	
8	
9	
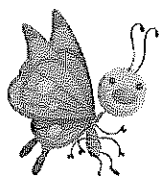
Math Talk How can Exercise 2 help you solve Exercise 3?

On Your Own

Follow a rule to complete the table.

7.

Subtract 4	
11	
12	
13	

8.

Subtract 6	
7	
8	
9	

9.

Subtract 5	
7	
8	
9	

10.

Subtract 7	
13	
14	
15	
16	

11.

Subtract 8	
12	
14	
16	
17	

12.

Subtract 9	
12	
14	
16	
17	

PROBLEM SOLVING REAL WORLD

13. Solve. Complete the table.

Jane has 4 cookies.
Lucy has 3 cookies.
Seamus has 2 cookies.

How many cookies will each child have if they each eat 2 cookies?

Jane	4	
Lucy	3	
Seamus	2	

Algebra • Follow the Rule

Essential Question How can you follow a rule to complete an addition or subtraction function table?

Model and Draw

The rule for some tables is to add. For other tables the rule is to subtract.

Add 1	
2	3
4	
6	
8	

Subtract 1	
2	1
4	
6	
8	

Share and Show

Follow a rule to complete the table.

1.

Add 2	
10	
9	
8	
7	

2.

Subtract 2	
10	
9	
8	
7	

3.

Subtract 1	
3	
4	
7	
9	
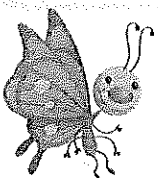
Math Talk What is the rule for the pattern in Exercise 1?
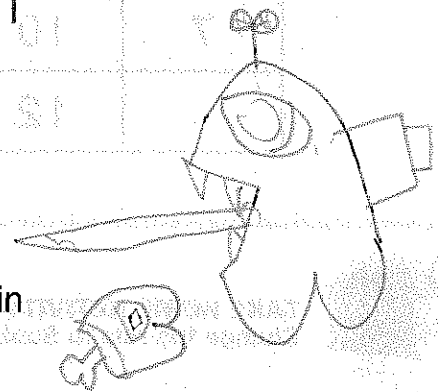
On Your Own

Follow a rule to complete the table.

4.

Add 5	
7	
8	
9	
10	

5.

Subtract 5	
7	
8	
9	
10	

6.

Subtract 1	
8	
9	
11	
13	

7.

Subtract 3	
5	
7	
9	
11	

8.

Add 4	
6	
7	
8	
9	

9.

Add 6	
9	
8	
7	
6	

PROBLEM SOLVING

10. Find the rule. Complete the table.

3	
	8
7	10
	12

Add 3 Numbers

Essential Question How can you choose a strategy
to help add 3 numbers?

Model and Draw

When you add 3 numbers, you can add in any order.
Using a strategy can help.

Make a 10.

$$\begin{array}{r} 2 \\ 6 \\ + 8 \\ \hline 16 \end{array} \quad \begin{array}{r} 10 \\ + 6 \\ \hline \end{array}$$

Use doubles.

$$\begin{array}{r} 8 \\ 8 \\ + 4 \\ \hline 20 \end{array} \quad \begin{array}{r} 16 \\ + 4 \\ \hline \end{array}$$

Use count on.

$$\begin{array}{r} 6 \\ 8 \\ + 3 \\ \hline 17 \end{array} \quad \begin{array}{r} 9 \\ + 8 \\ \hline \end{array}$$

Share and Show

Math Board

Use strategies to find the sums. Circle any strategy you use.

1.	4 make a 10	2.	9 make a 10	3.	4 make a 10
	7 doubles		8 doubles		6 doubles
	+ 7 count on		+ 1 count on		+ 2 count on
4.	8 make a 10	5.	6 make a 10	6.	6 make a 10
	4 doubles		3 doubles		7 doubles
	+ 2 count on		+ 6 count on		+ 4 count on

Math Talk Explain why you used the
make a 10 strategy to solve Exercise 2.

On Your Own

Use a strategy to find the sum. Circle the strategy you choose.

7.   5   make a 10
       5   doubles
    + 5   count on
	8. 7 make a 10
	       3 doubles
	    + 5 count on
		9. 3 make a 10
		       8 doubles
		    + 8 count on

10.   4   make a 10
       2   doubles
    + 7   count on
	11. 2 make a 10
	       9 doubles
	    + 2 count on
		12. 9 make a 10
		       9 doubles
		    + 1 count on

13.   9   make a 10
       2   doubles
    + 8   count on
	14. 6 make a 10
	       3 doubles
	    + 7 count on
		15. 8 make a 10
		       4 doubles
		    + 1 count on

PROBLEM SOLVING REAL WORLD

16. Christine has 7 red buttons, 3 blue buttons, and 4 yellow buttons. How many buttons does she have?

_____ buttons
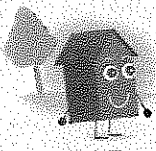
Add a One-Digit Number to a Two-Digit Number

Essential Question How can you find the sum of a 1-digit number and a 2-digit number?

Model and Draw

What is 54 + 2?

To find the sum, find how many **tens** and **ones** in all.

	5 tens	4 ones		5 4
+		2 ones		+ 2
	5 tens	6 ones		5 6

Share and Show

Math Board

Add. Write the sum.

1. 72	2. 24	3. 41	4. 56
+ 3	+ 1	+ 4	+ 2

5. 14	6. 33	7. 61	8. 93
+ 4	+ 6	+ 8	+ 4

9. 31	10. 11	11. 40	12. 35
+ 6	+ 7	+ 4	+ 3

Math Talk How did you find the total number of ones in Exercise 1?

On Your Own

Add. Write the sum.

13. $\begin{array}{r} 22 \\ +\ 7 \\ \hline \end{array}$	**14.** $\begin{array}{r} 53 \\ +\ 3 \\ \hline \end{array}$	**15.** $\begin{array}{r} 46 \\ +\ 2 \\ \hline \end{array}$	**16.** $\begin{array}{r} 71 \\ +\ 8 \\ \hline \end{array}$
17. $\begin{array}{r} 84 \\ +\ 5 \\ \hline \end{array}$	**18.** $\begin{array}{r} 93 \\ +\ 4 \\ \hline \end{array}$	**19.** $\begin{array}{r} 16 \\ +\ 3 \\ \hline \end{array}$	**20.** $\begin{array}{r} 37 \\ +\ 1 \\ \hline \end{array}$
21. $\begin{array}{r} 62 \\ +\ 2 \\ \hline \end{array}$	**22.** $\begin{array}{r} 23 \\ +\ 5 \\ \hline \end{array}$	**23.** $\begin{array}{r} 82 \\ +\ 2 \\ \hline \end{array}$	**24.** $\begin{array}{r} 44 \\ +\ 4 \\ \hline \end{array}$

PROBLEM SOLVING REAL WORLD

25. There are 23 children in the first grade class. Then 3 more children join the class. How many children are there now?

_____ children

Add Two-Digit Numbers

Essential Question How can you find the sum of two 2-digit numbers?

Model and Draw

What is 23 + 14?

You can find how many **tens** and **ones** in all.

2 tens	3 ones		2 3
+ 1 ten	4 ones		+ 1 4
__3__ tens	__7__ ones		37

Share and Show

Add. Write the sum.

1.	82	2.	25	3.	15	4.	71
	+ 12		+ 43		+ 14		+ 12

5.	36	6.	43	7.	57	8.	21
	+ 21		+ 41		+ 32		+ 12

9.	12	10.	41	11.	32	12.	51
	+ 12		+ 21		+ 41		+ 14

Math Talk How many tens are in 26 + 11? How do you know?

On Your Own

Add. Write the sum.

13. 83 + 12	14. 73 + 21	15. 16 + 51	16. 23 + 43
17. 24 + 55	18. 67 + 21	19. 64 + 23	20. 51 + 24
21. 26 + 32	22. 51 + 25	23. 46 + 22	24. 34 + 45

PROBLEM SOLVING REAL WORLD

25. Emma has 21 hair clips. Her sister has 11 hair clips. How many hair clips do the girls have together?

_____ hair clips

Repeated Addition

Essential Question How can you find how many items there are in equal groups without counting one at a time?

Model and Draw

When all groups have the same number they are equal groups.

Ayita is putting 2 plants on each step up to her porch. She has 4 steps. How many plants does she need?
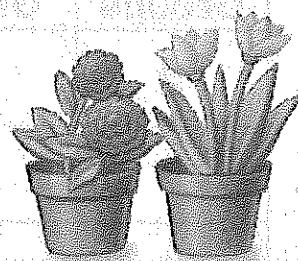
There are 4 equal groups. There are 2 in each group. Add to find how many in all.

$$\underline{2} + \underline{2} + \underline{2} + \underline{2} = \underline{8}$$

Ayita needs __8__ plants.

Share and Show

Use your MathBoard and ⬤ . Make equal groups. Complete the addition sentence.

	Number of Equal Groups	Number in Each Group	How many in all?
1.	4	3	___ + ___ + ___ + ___ = ___
2.	2	5	___ + ___ = ___
3.	3	4	___ + ___ + ___ = ___

Math Talk How can you use addition to find 5 groups of 4?

On Your Own

Use your MathBoard and ⬤. Make equal
groups. Complete the addition sentence.

	Number of Equal Groups	Number in Each Group	How many in all?
4.	2	3	___ + ___ = ___
5.	3	5	___ + ___ + ___ = ___
6.	4	4	___ + ___ + ___ + ___ = ___
7.	4	5	___ + ___ + ___ + ___ = ___
8.	5	7	___ + ___ + ___ + ___ + ___ = ___

PROBLEM SOLVING REAL WORLD

Solve.

9. There are 3 flower pots.
   There are 2 flowers in each
   flower pot. How many flowers
   are there?

   _____ flowers

10. There are 2 plants. There
    are 4 leaves on each plant.
    How many leaves
    are there?

    _____ leaves
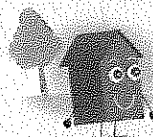
TAKE HOME ACTIVITY • Use dry cereal or pasta to make 3 equal groups of 5.
Ask your child to find the total number of items.

P270 two hundred seventy

Use Repeated Addition to Solve Problems

Essential Question How can you use repeated addition to solve problems?

Model and Draw

Dyanna will have 3 friends at her party.
She wants to give each friend 4 balloons.
How many balloons does Dyanna need?
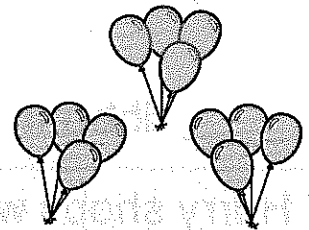
_12_ balloons

THINK $4 + 4 + 4 = 12$

Share and Show

Math Board

Draw pictures to show the story.
Write the addition sentence to solve.

1. Ted plays with 2 friends. He wants to give each friend 5 cards. How many cards does Ted need?

   _____ cards

2. Aisha shops with 4 friends. She wants to buy each friend 2 roses. How many roses does Aisha need?
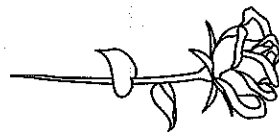
   _____ roses
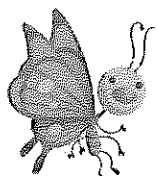
Math Talk What pattern can you use to find the answer to Exercise 2?

On Your Own

Draw pictures to show the story.
Write the addition sentence to solve.

3. Lea plays with 3 friends. She wants to give each friend 5 ribbons. How many ribbons does Lea need?

_____ ribbons

4. Harry shops with 5 friends. He wants to buy each friend 2 pens. How many pens does Harry need?

_____ pens

5. Cam plays with 4 friends. She wants to give each friend 4 stickers. How many stickers does Cam need?

_____ stickers

PROBLEM SOLVING REAL WORLD

Circle the way you can model the problem.
Then solve.

6. There are 4 friends. Each friend has 3 apples. How many apples are there?

4 groups of 4 apples

4 groups of 3 apples

3 groups of 4 apples

There are _____ apples.

TAKE HOME ACTIVITY • Use small items such as cereal pieces to act out each problem. Have your child check the answers on this page.

✓ Checkpoint

Concepts and Skills

Follow the rule to complete each table.

1.

Add 3	
2	
4	
6	
8	

2.

Subtract 7	
10	
12	
13	
14	

3.

Add 6	
10	
9	
8	
7	

4.

Subtract 6	
15	
14	
13	
12	

Use strategies to find the sums. Circle any strategy you use.

5. 4   make a 10
    3   doubles
  + 4   count on
  _____

6. 3   make a 10
    7   doubles
  + 5   count on
  _____

Add. Write the sum.

7.   32   8.   52   9.   18   10.   43
   + 14   + 46   + 21   + 35
   ____   ____   ____   ____

Use your MathBoard and ⬤. Make equal groups.
Complete the addition sentence.

	Number of Equal Groups	Number in Each Group	How many in all?
11.	3	2	___ + ___ + ___ = ___
12.	2	4	___ + ___ = ___

13. Choose the way to model the problem.
    James has 4 letters. He puts 2 stamps on each letter.
    How many stamps does he use in all?

    ○ 2 groups of 4 stamps   ○ 4 groups of 4 stamps

    ○ 2 groups of 2 stamps   ○ 4 groups of 2 stamps

Choose a Nonstandard Unit to Measure Length

Essential Question How can you decide which nonstandard unit to use to measure the length of an object?

Model and Draw

Use ⊂══⊃ to measure short things.
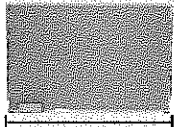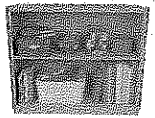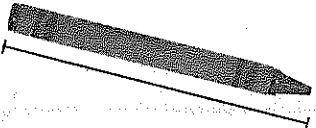
Use ✎══➤ to measure long things.
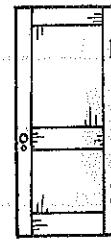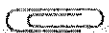
Share and Show

Use real objects. Circle the unit you would use to measure. Then measure.

Object	Unit	Measurement
1.	⊂══⊃ / ✎══➤	about ____
2.	⊂══⊃ / ✎══➤	about ____
3.	⊂══⊃ / ✎══➤	about ____
4.	⊂══⊃ / ✎══➤	about ____
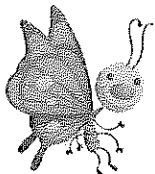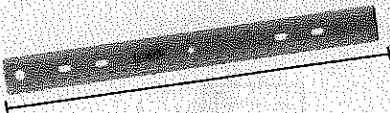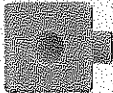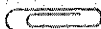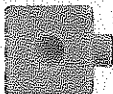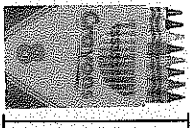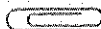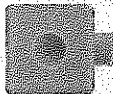
Math Talk Alex measured a book with ⊂══⊃. Then he measured with ✎══➤. Did he use more ⊂══⊃ or ✎══➤? Explain.

On Your Own

Use real objects. Choose a unit to measure the length. Circle it. Then measure.
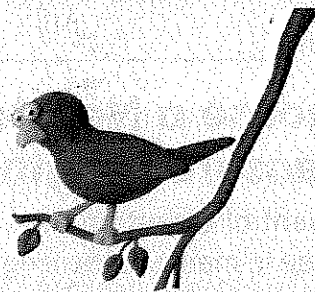
Object	Unit	Measurement
5.		about ____
6.		about ____
7.		about ____
8.		about ____

PROBLEM SOLVING · REAL WORLD

9. Fred uses ▦ to measure the stick.
   Sue measures the stick and gets the same measurement.
   Circle the unit that Sue uses.
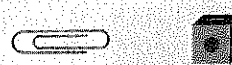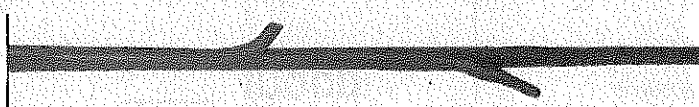
TAKE HOME ACTIVITY • Have your child measure something around the house by using small objects such as paper clips and then by using larger objects such as pencils. Discuss why the measurements differ.

Use a Non-Standard Ruler

Essential Question How can you use a non-standard measuring tool to find length?

Model and Draw

About how long is the pencil?
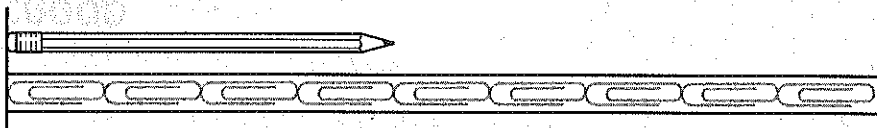
The end of the pencil and the end of the ⌷ must line up. Count how many ⌷ from one end of the pencil to the other.

about ____4____ ⌷

Share and Show

About how long is the string?

1.
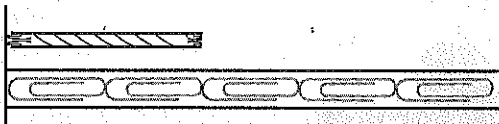
about _____ ⌷

2.
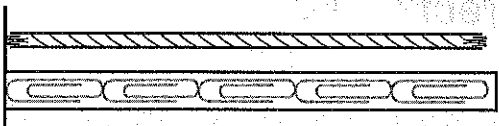
about _____ ⌷
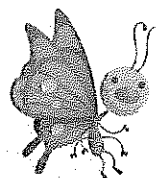
Math Talk   In Exercise 1, why must the end of the pencil and the end of the ⌷ line up?

On Your Own

About how long is the string?

3.
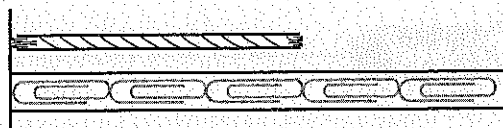
about _____ ⊂═⊃

4.
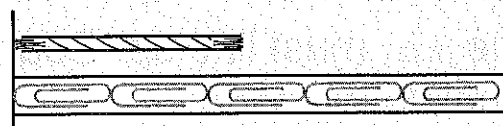
about _____ ⊂═⊃

5.
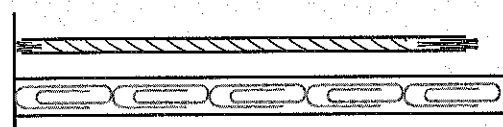
about _____ ⊂═⊃

PROBLEM SOLVING · REAL WORLD

6. Wendy measures her pencil. She says it is about 2 ⊂═⊃ long. Is she correct? Explain.
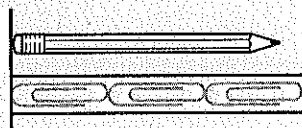
_____

_____

Compare Lengths

Essential Question How can you compare lengths of objects?

Model and Draw

First, write 1, 2, and 3 to order the strings from **shortest** to **longest**.
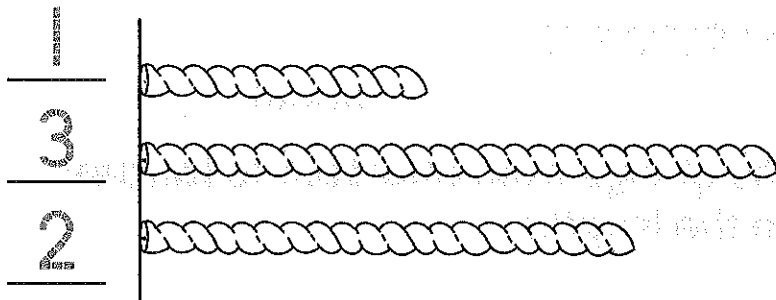
Then measure with ▢.

1 | about __3__ ▢ ←Shortest

3 | about __8__ ▢ ←Longest

2 | about __6__ ▢

Share and Show

Write 1, 2, and 3 to order the strings from **shortest** to **longest**. Then measure with ▢. Write the lengths.
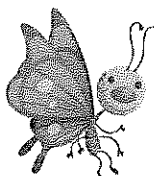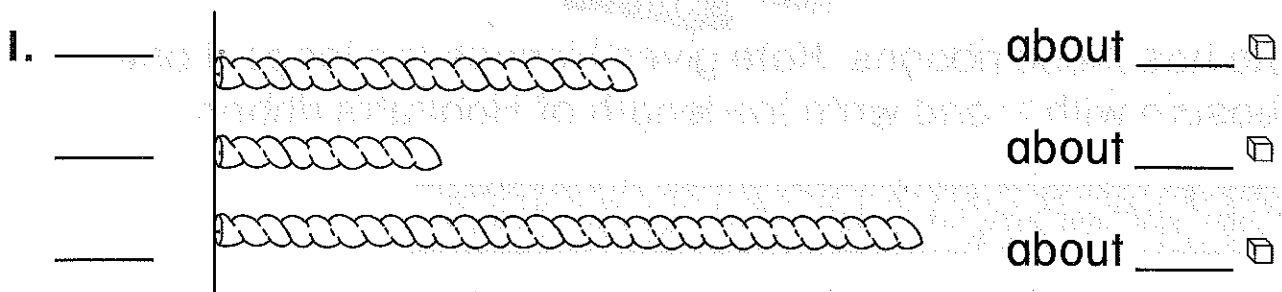
1. ____ | about ____ ▢

____ | about ____ ▢

____ | about ____ ▢

Math Talk How can measuring with cubes tell you the order of the strings?

On Your Own

2. Write 1, 2, and 3 to order the strings from **shortest** to **longest**. Then measure with ⬠. Write the lengths.
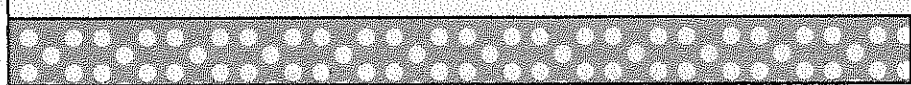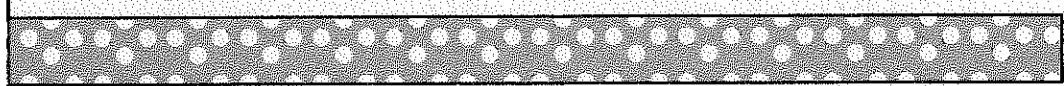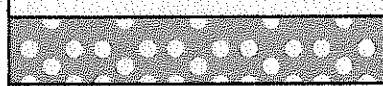
_____   about _____ ⬠

_____   about _____ ⬠

_____   about _____ ⬠
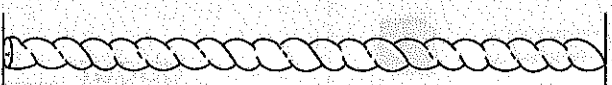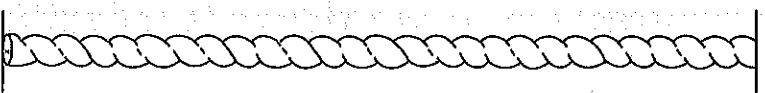
3. Write 1, 2, and 3 to order the strings from **shortest** to **longest**. Then measure with ⬠. Write the lengths.

_____   about _____ ⬠

_____   about _____ ⬠

_____   about _____ ⬠

PROBLEM SOLVING REAL WORLD

4. Kate has these ribbons. Kate gives Hannah the longest one. Measure with ⬠ and write the length of Hannah's ribbon.

about _____ ⬠

Time to the Hour and Half Hour

Essential Question How do you tell time to the hour and half hour on an analog clock?

Model and Draw

The hour hand and the minute hand show the time. Write the time shown on the clock.
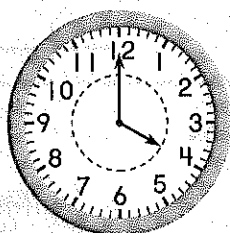
4:00

4:30

Share and Show

Math Board
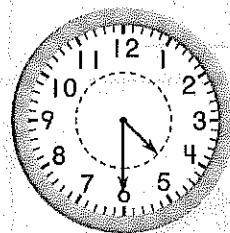
Read the clock. Write the time.

1.

_____
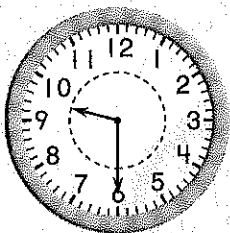
2.

_____
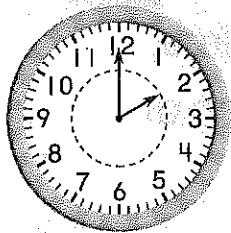
3.

_____
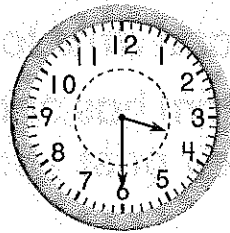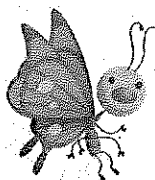
Math Talk Why does the hour hand point halfway between 5 and 6 at half past 5:00?

On Your Own

Read the clock. Write the time.

4.

_____
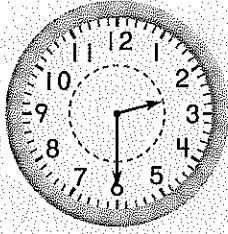
5.

_____

6.

_____

7.

_____

8.

_____

9.

_____
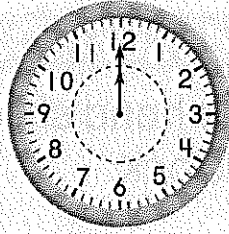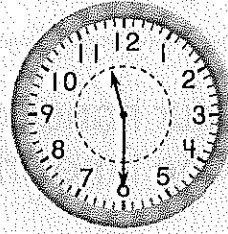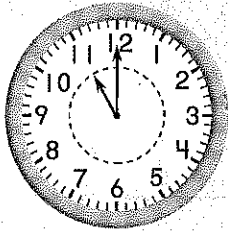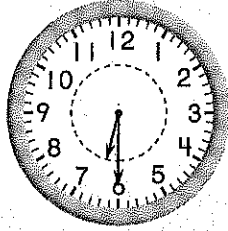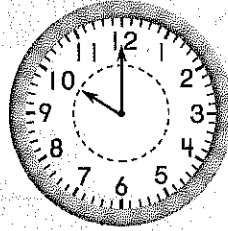
PROBLEM SOLVING REAL WORLD

Draw and write to show the time.

10. Liam has soccer practice at half past 10:00.

_____
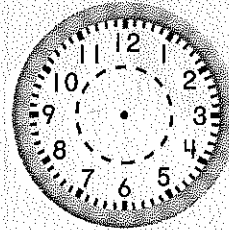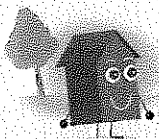
TAKE HOME ACTIVITY • Say a time, such as half past 1:00 or 7:00. Ask your child where the clock hands will point at that time.
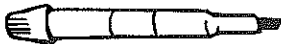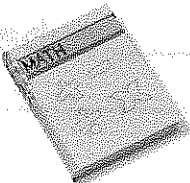
✓ Checkpoint
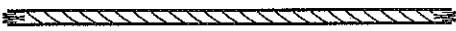
Concepts and Skills

Use real objects. Choose a unit to measure the length.
Then measure.
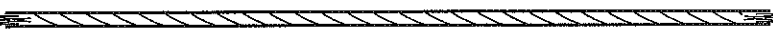
Object	Unit	Measurement
1.	🖇 ⬛	about _____
2.	🖇 ⬛	about _____
3.	🖇 ⬛	about _____

How long is the yarn? Use the star ruler to measure.

4.

_____ stars long

5.

_____ stars long

Write 1, 2, and 3 to measure the
strings from **shortest** to **longest**.
Then measure with cubes. Write the lengths.
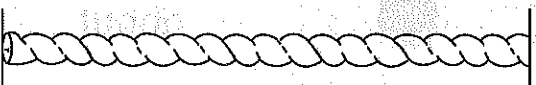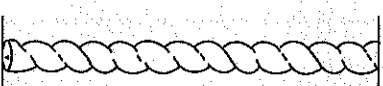
6.

_____ _____ cubes long

_____ _____ cubes long

_____ _____ cubes long

7.

_____ _____ cubes long

_____ _____ cubes long

_____ _____ cubes long

8. Read the clock. Choose the correct time.
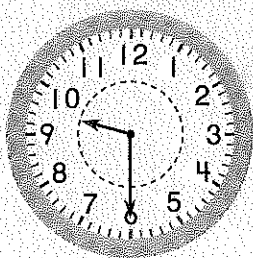
○ 8:00

○ 8:30

○ 9:00

○ 9:30

Use a Picture Graph

Essential Question How do you read a picture graph?

Model and Draw

Our Favorite Hot Dog Toppings						
🥫 mustard	♀	♀	♀		
🍾 ketchup	♀	♀	♀	♀	♀

Each ♀ stands for 1 child.

_3_ children chose 🥫.

Most children chose __ketchup__.

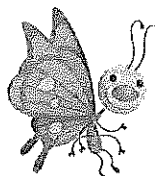_2_ fewer children chose 🥫 than 🍾.

Share and Show 〔Math Board〕

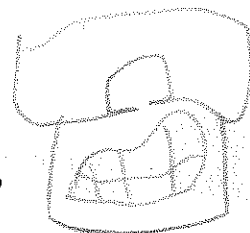| Our Sock Colors						
🧦 black	♀	♀				
🧦 white	♀	♀	♀	♀	♀	♀
🧦 blue	♀	♀	♀			

Each ♀ stands for 1 child.

Use the picture graph to answer the questions.

1. How many children are wearing 🧦? ____

2. What color of socks are most of the children wearing? _____

3. How many more children wear 🧦 than 🧦? ____

Math Talk How did you find the answer to Exercise 3?

On Your Own

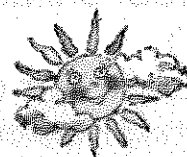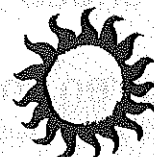| Our Weather						
🏚 rainy	◯	◯	◯	◯		
☀ sunny	◯	◯				
🌤 cloudy	◯	◯	◯	◯	◯	◯

Each ◯ stands for 1 day.

Use the picture graph to answer each question.

4. How many days in all are shown on the graph?

_____ days

5. What was the weather for most days? Circle.

6. How many fewer days were 🏚 than 🌤?

_____ days

7. How many ☀ and 🌤 days were there?

_____ days

PROBLEM SOLVING REAL WORLD

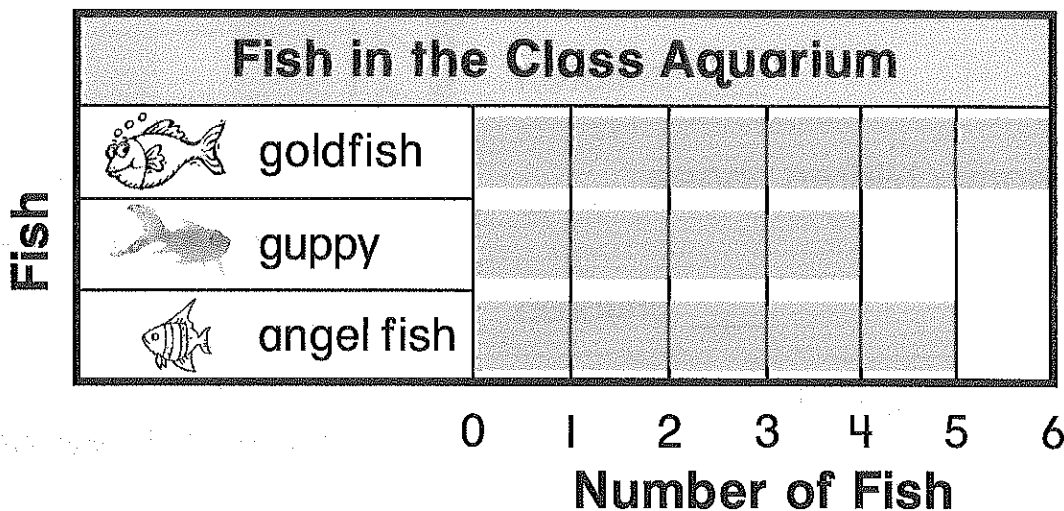**8.** Today is sunny. Robin puts one more ☀ on the graph. How many ☀ days are there now?

_____ days

Name _____

Use a Bar Graph

Essential Question How do you read a bar graph?

Model and Draw

Fish in the Class Aquarium

Fish							
goldfish							
guppy							
angel fish							

0   1   2   3   4   5   6
Number of Fish

To find how many, read the number below the end of the bar.

__6__ fish are 🐟.

Share and Show

Use the bar graph to answer the questions.

1. How many fish are in the aquarium?

_____ fish

2. How many fish in the aquarium are 🐠?
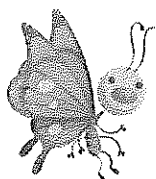
_____ fish

3. How many fewer fish are 🐟 than 🐟?

_____ fish

4. Are more of the fish 🐟 or 🐠?

_____

Math Talk How did you find the answer for Exercise 1?

On Your Own

Use the bar graph to answer the questions.

Our Favorite Vegetables

Number of Children

5
4
3
2
1
0

carrots   potatoes   corn

Kinds of Vegetables

5. How many children chose 🥔?

_____ children

6. How many children chose 🥕?

_____ children
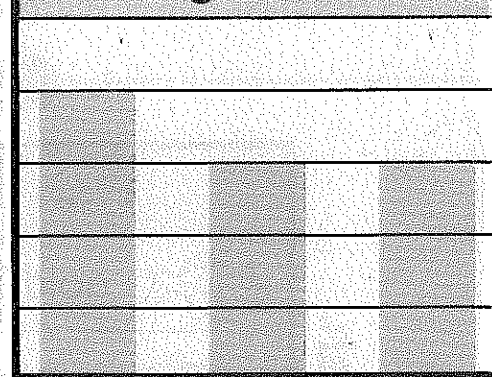
7. Which vegetable did most children choose? Circle.

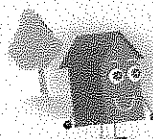8. Which vegetables were chosen the same number of times? Circle.

PROBLEM SOLVING REAL WORLD

Use the bar graph to solve.

9. Brad and Glen both like corn the best. If the boys add this to the graph, how many children will have chosen corn?

_____ children

TAKE HOME ACTIVITY • Ask your child to decide whether they prefer carrots or potatoes. Then have your child color to add their choice to the bar graph on this page.

Take a Survey

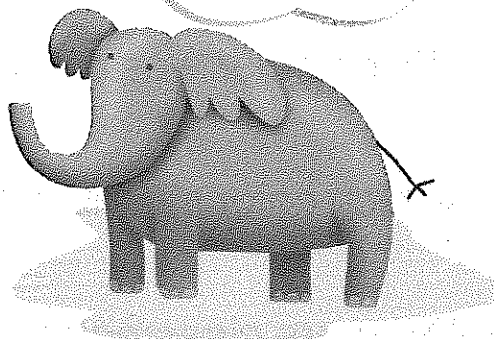**Essential Question** How can you take a survey?

Model and Draw

You can take a **survey** to get information. Jane took a survey of her friends' favorite wild animals. The tally chart shows the results.

REMEMBER
Each tally mark stands for one friend's choice.

Favorite Wild Animal	
Animal	Tally
elephant	卌
monkey	|||
tiger	||

Share and Show

Math Board

1. Take a survey.
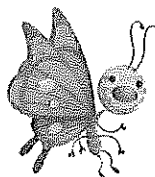   Ask 10 classmates which wild animal is their favorite. Use tally marks to show their answers.

Our Favorite Wild Animal	
Animal	Tally
elephant	
monkey	
tiger	

2. How many children did not choose tiger?

   _____ children

3. Did more children choose elephant or tiger? _____

4. The most children chose
   _____ as their favorite.

Math Talk Describe a different survey that you could take. What would the choices be?

On Your Own

5. Take a survey. Ask 10 classmates which color is their favorite. Use tally marks to show their answers.

Our Favorite Color	
Color	Tally
red	
blue	
green	

6. Which color was chosen by the fewest classmates? _____

7. Which color did the most classmates choose? _____

8. Did more classmates choose red or green? _____

9. _____ classmates chose a color that was not red.

10. Did fewer children choose blue or green? _____

PROBLEM SOLVING REAL WORLD

11. Jeff wants to ask 10 classmates which snack is their favorite. He makes 1 tally mark for each child's answer. How many more classmates does he need to ask?

Our Favorite Snack	
Snack	Tally
pretzels	II
apples	I
popcorn	IIII

_____ more classmates

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Identify Shapes

Essential Question How can attributes help you identify a shape?

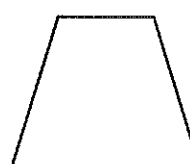The number of sides and vertices
help you identify a shape.

○◄──── vertex
◄──── side
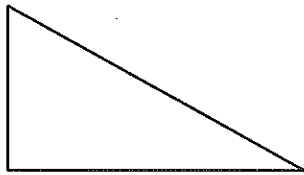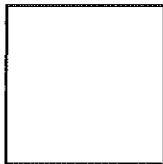
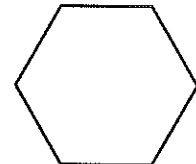triangle   square   rectangle   trapezoid   hexagon

3 sides, 3 vertices   4 sides, 4 vertices   6 sides, 6 vertices
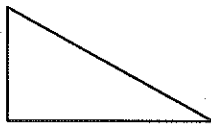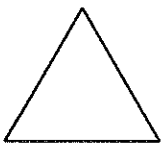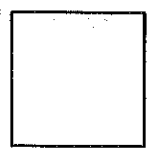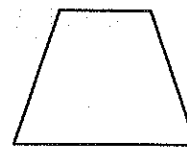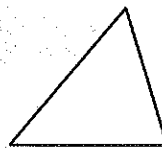
Share and Show

Math Board
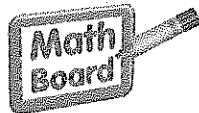
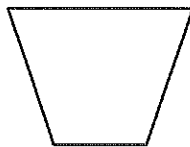Circle to answer the question. Write to name the shape.

1. Which shape has 4 sides?
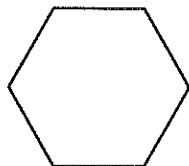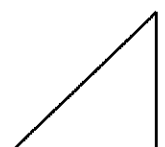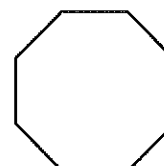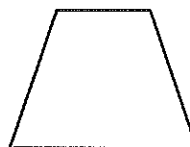
_____

2. Which shape has 3 vertices?

_____

3. Which shape has 6 sides?

_____

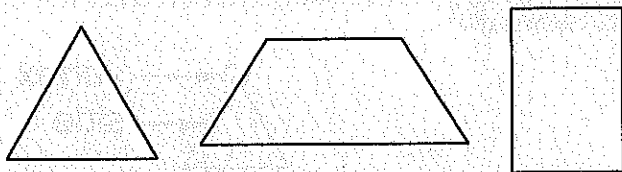4. Which shape has 4 vertices?

_____

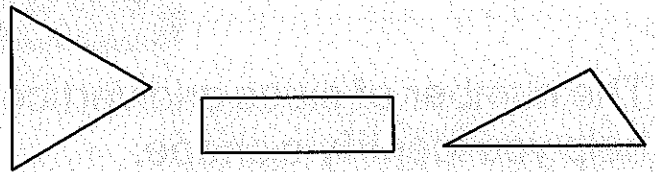**Math Talk**   How are a square and a rectangle alike?

On Your Own

Circle to answer the question. Write to name the shape.
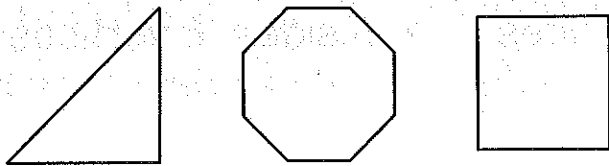
5. Which shape has 3 sides?

_____
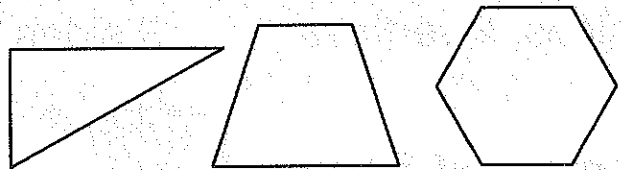
6. Which shape has 4 vertices?

_____

7. Which shape has 4 sides?

_____

8. Which shape has 6 vertices?
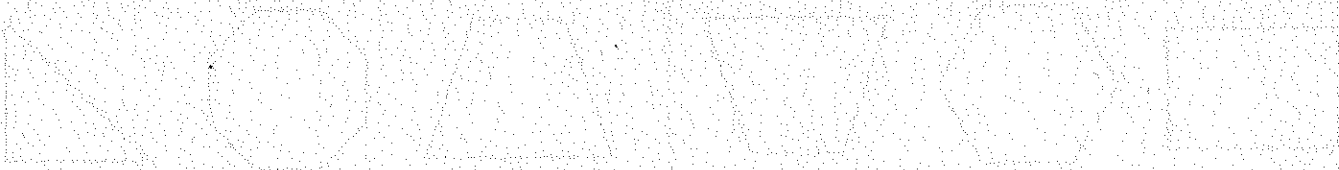
_____

PROBLEM SOLVING REAL WORLD

9. Jason, Mat, and Carrie each draw a shape with 4 sides. The shapes look different and have different names.

Draw 3 shapes the children might have drawn. Write to name each shape.
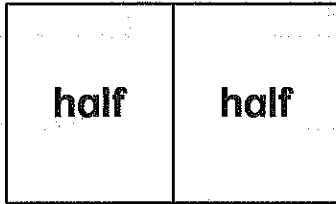
_____   _____   _____

TAKE HOME ACTIVITY • Have your child look around the house to find something that looks like a rectangle. Then have your child point to the rectangle and count the vertices. Repeat with the sides.
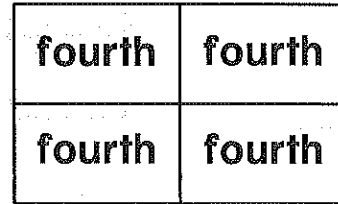
Name _____

Equal Shares

Essential Question How can you name two or four equal shares?

Model and Draw

half	half

__2__ equal shares

__2__ halves

fourth	fourth
fourth	fourth

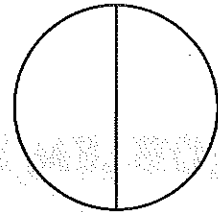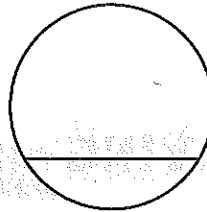__4__ equal shares

__4__ fourths

Share and Show

Math Board

Circle the shape that shows equal shares. Write to name the equal shares.

1.

_____
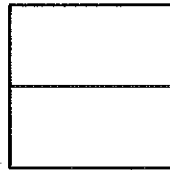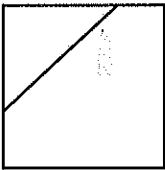
2.

_____

3.

_____
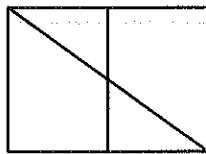
4.

_____
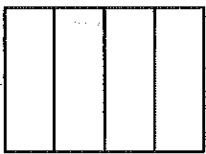
Math Talk Are all equal shares the same size and shape? Explain.

On Your Own

Circle the shape that shows equal shares. Write to name the equal shares.

5.
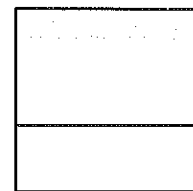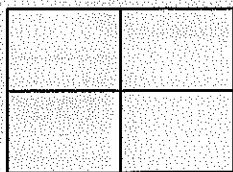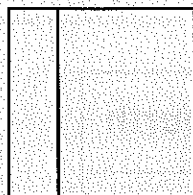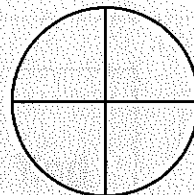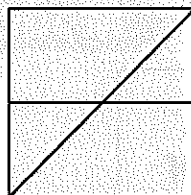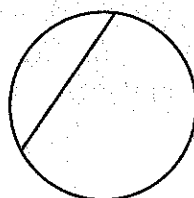
_____

6.

_____

7.

_____
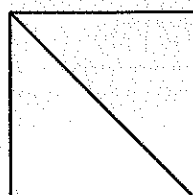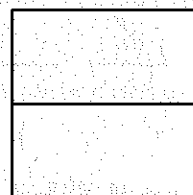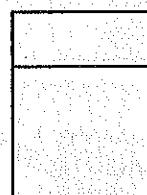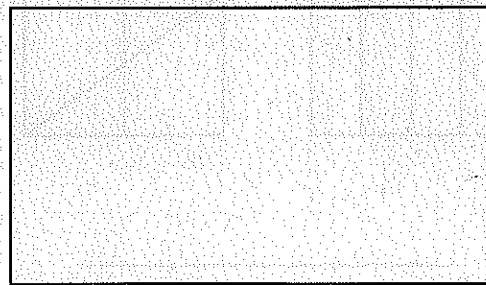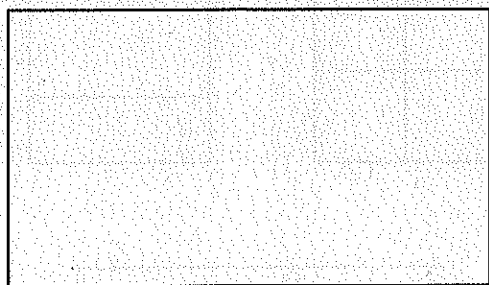
8.

_____

PROBLEM SOLVING REAL WORLD

9. Riley wants to share his cracker with a friend. Draw to show two different ways Riley can cut the cracker into equal shares.

TAKE HOME ACTIVITY • Ask your child to help you cut a piece of toast into fourths.
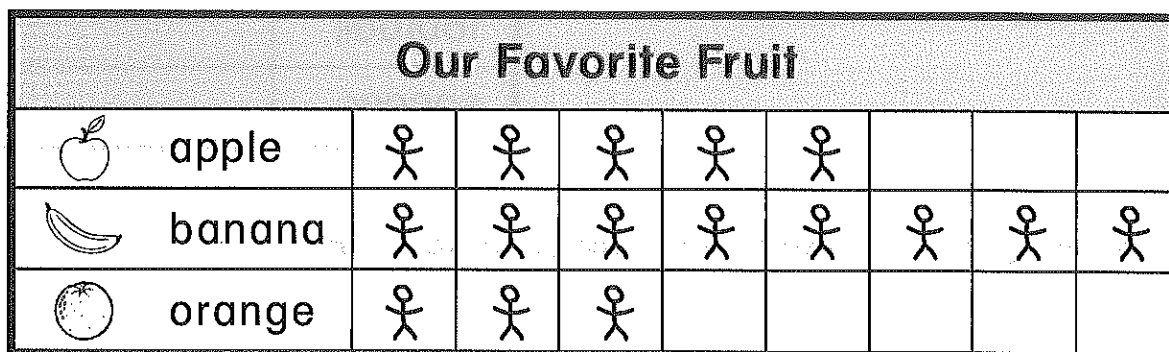
P294 two hundred ninety-four

✓ Checkpoint

Concepts and Skills

Use the picture graph to answer Exercises 1 and 2.

Our Favorite Fruit								
🍎 apple	�	�	�	�	�			
🍌 banana	�	�	�	�	�	�	�	�
🍊 orange	�	�	�					

Each � stands for 1 child.

1. How many children choose an orange? _____

2. Which fruit was chosen most often? _____

···

Use the bar graph to answer Exercises 3 and 4.

Our Favorite Pets

Kind of Pet

dog

cat

bird

0 1 2 3 4 5 6
Number of Children
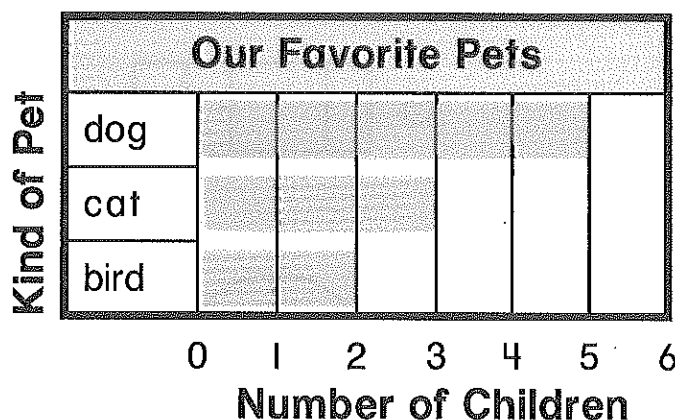
3. Which pet did most children choose? _____
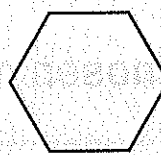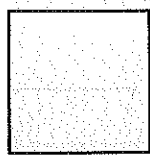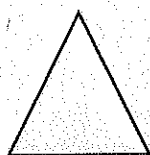
4. How many more children chose a cat than a bird?

_____

5. Take a survey. Ask 8 classmates which sport is their favorite. Use tally marks to show their answers.

Our Favorite Sport	
Sport	**Tally**
baseball	
football	
soccer	

6. Did more children choose baseball or soccer? _____

Circle to answer the question. Then write the shape name.

7. Which shape has 4 vertices?

_____

8. Which shape shows fourths?