SPECTRUM® Critical Thinking for Math



Strategies and Activities to Extend Mathematical Understanding

- Counting and writing numbers
 - Adding and subtracting through 10
 - Place value foundations
 - 2-D and 3-D shapes
 - Answer key

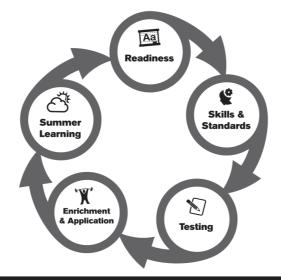


Support your child's educational journey throughout the year!

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Kindergarten

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Check What You Know

Counting and Writing Numbers

Draw the number of objects given. Then, write the number.

1. 6



2.



3. **22**

4



4. **15**



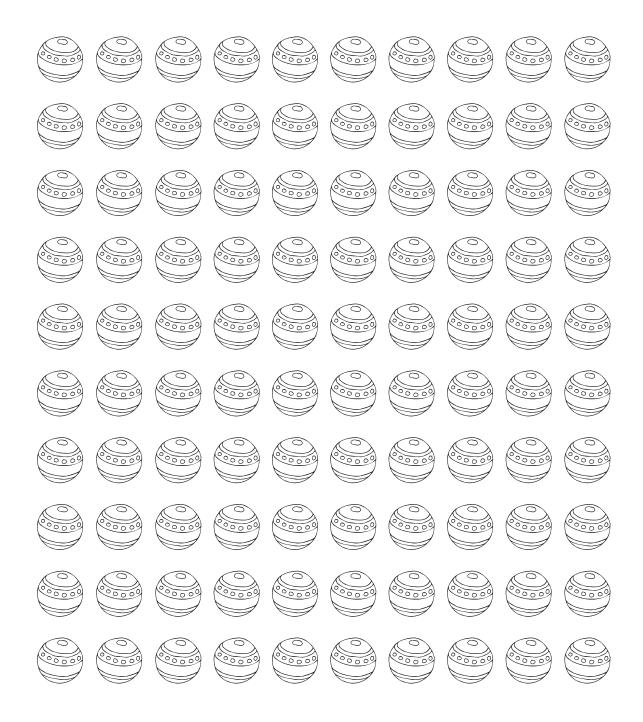
Spectrum Critical Thinking for Math Kindergarten

Chec

Check What You Know

Counting and Writing Numbers

Color **52** balls purple. Color **48** balls orange.



Count the shapes in each group. Draw more shapes so that each group has the given number of shapes. Write the given number on the line.

9







5







3







The dog has 7 black spots on its body.

7



Draw the number of spots given on the body of each dog.

10



Ц



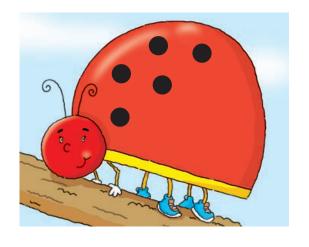
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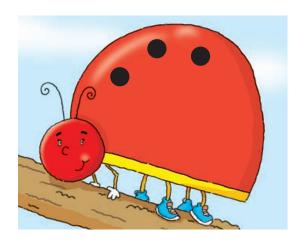


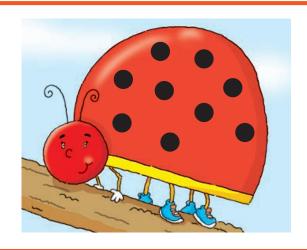
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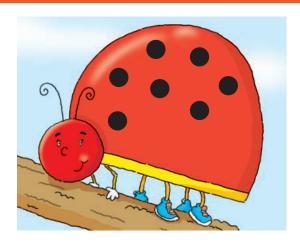


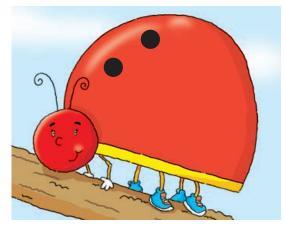
Count the number of spots on each ladybug. Draw more spots to make 10.



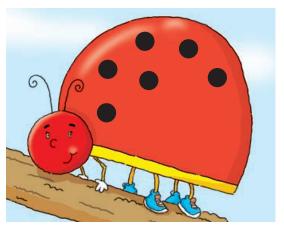






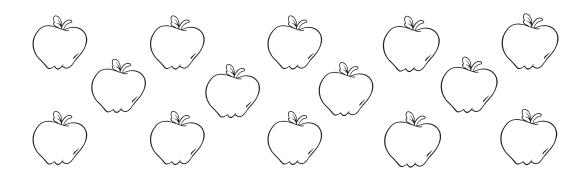


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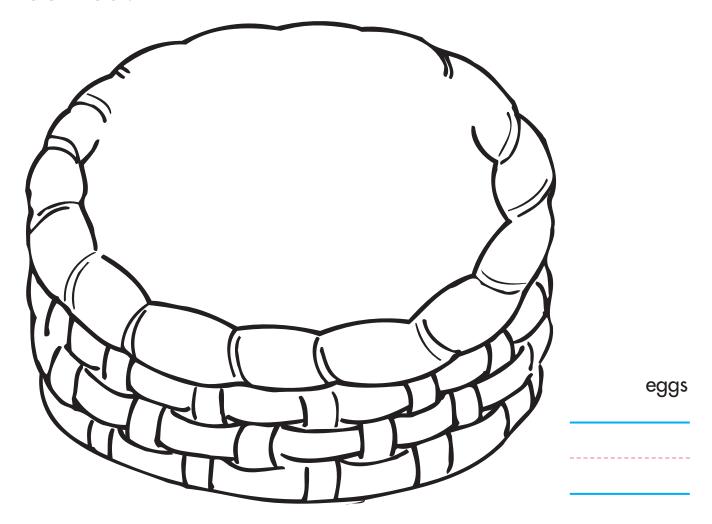


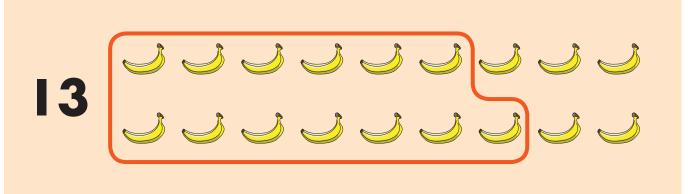
Lesson 1.1 Counting and Writing Numbers to 10

Color 6 apples red. Color 5 apples yellow. Color 3 apples green.



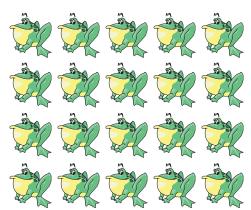
Draw 6 blue eggs and 7 brown eggs in the basket. How many eggs are there in total?



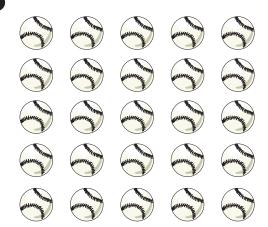


Circle the objects to make the given number.

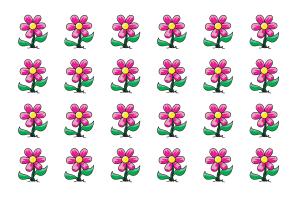
17



23



19

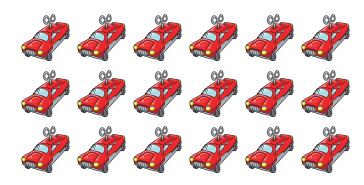


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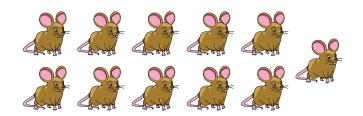


Lesson 1.2

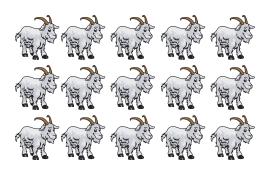
Draw a line to match each number to a group of things.



18



13





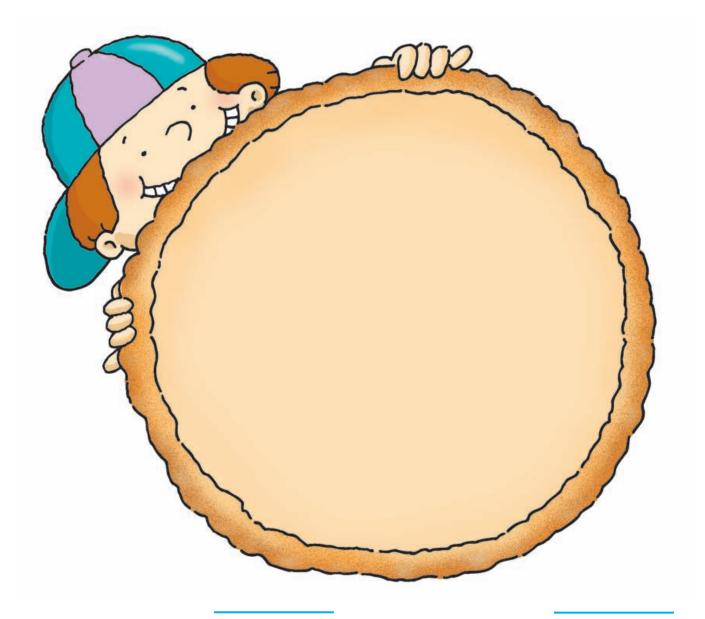
Draw pictures to show the given number of each object shown.



24

Draw 15 pieces of pepperoni on the pizza. Draw 20 black olives on the pizza.

Write the numbers on the line below.



pieces of pepperoni

black olives

Draw the given number of pencils in each cup. Write the number on each line.

13

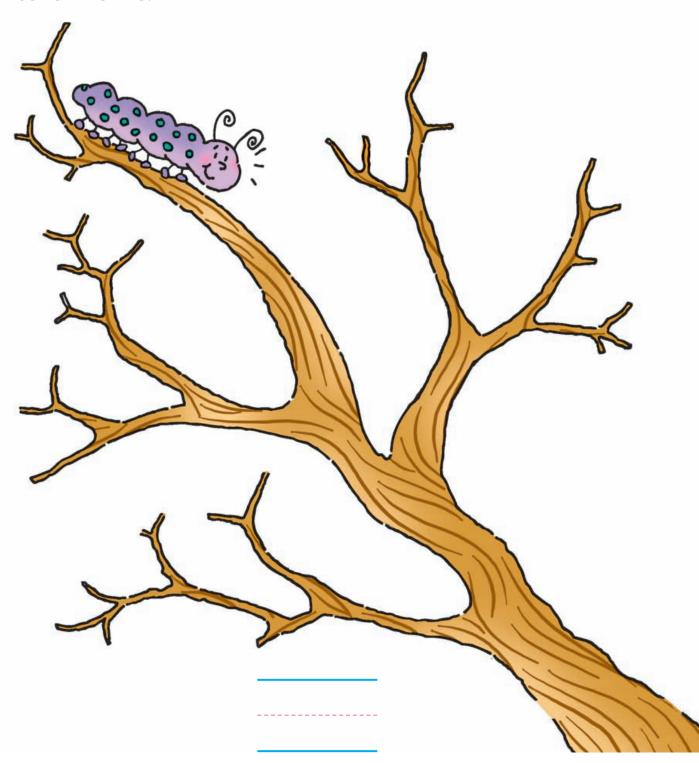








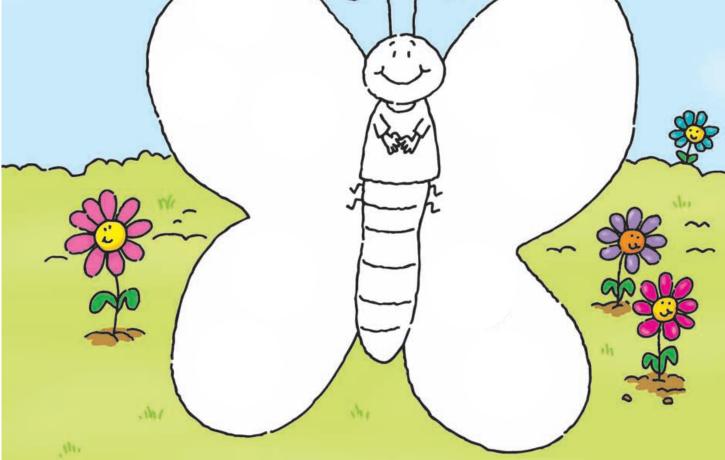
Draw 17 leaves on the branches for the caterpillar to eat. Write the number on the line.



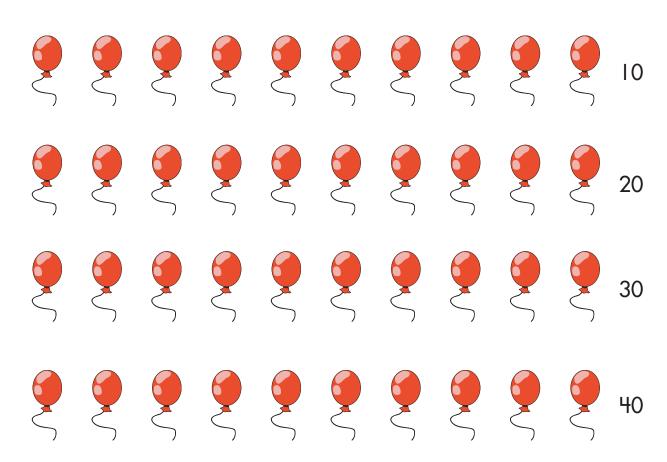
Draw 8 red dots, II green dots, and 4 purple dots.

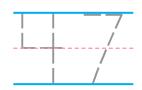
Write the number on each line below. How many dots did you draw in all?





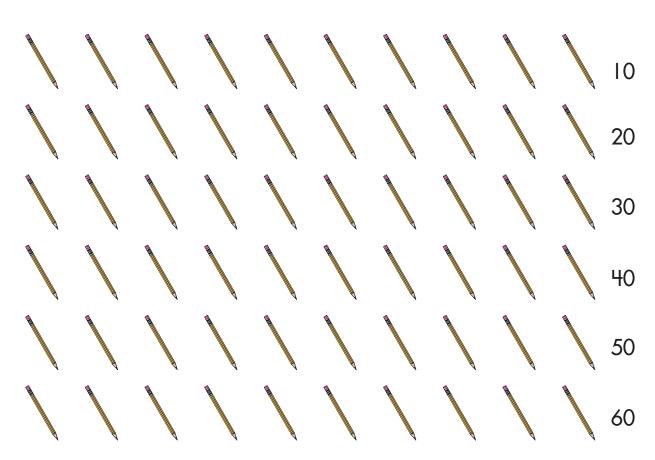
There are 10 balloons in each row. Count them by ones and by tens. Then, draw the amount of balloons needed to make the given number. Trace the given number on the line.

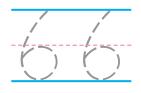




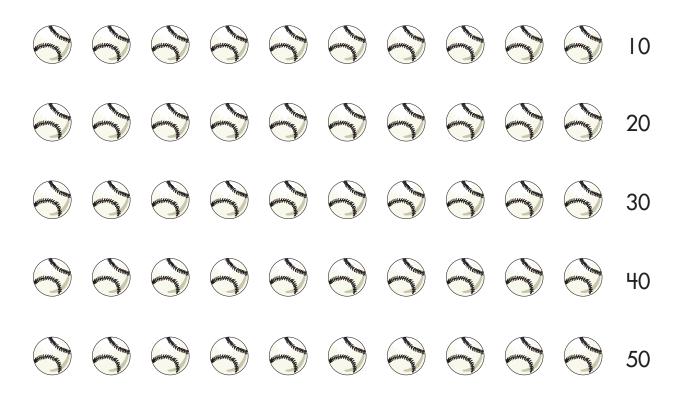
There are 10 pencils in each row. Count them by ones and by tens. Then, draw the amount of pencils needed to make the given number. Trace the given number on the line.

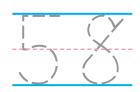




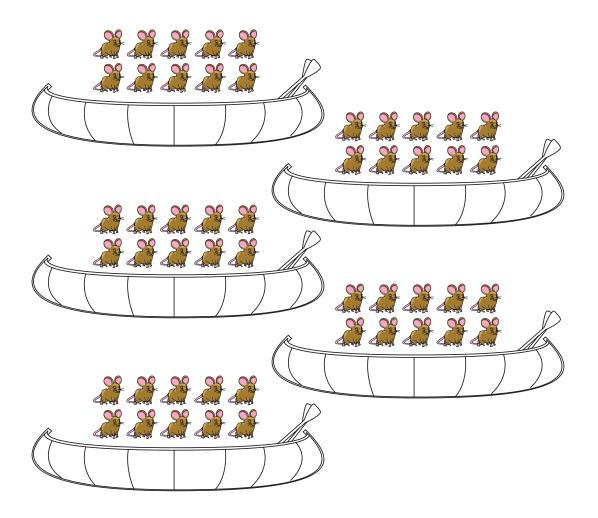


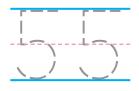
There are 10 baseballs in each row. Count them by ones and by tens. Then, draw the amount of baseballs needed to make the given number. Trace the given number on the line.



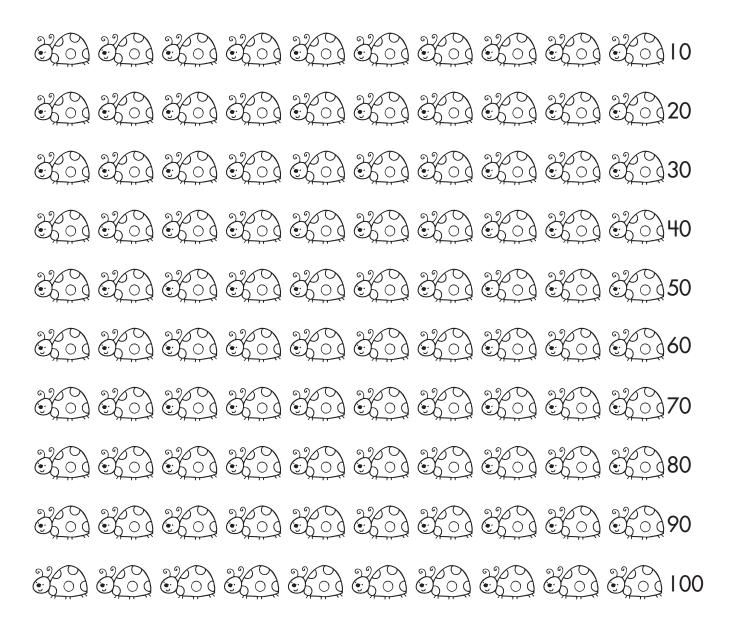


Count the mice. Draw another canoe. Then, draw more mice in the canoe to make 55 in all. Trace the number on the line.

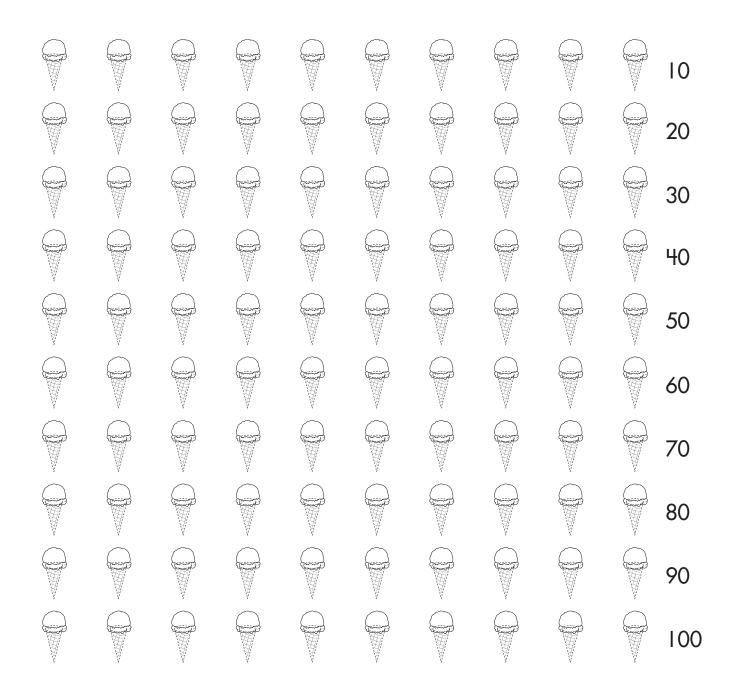




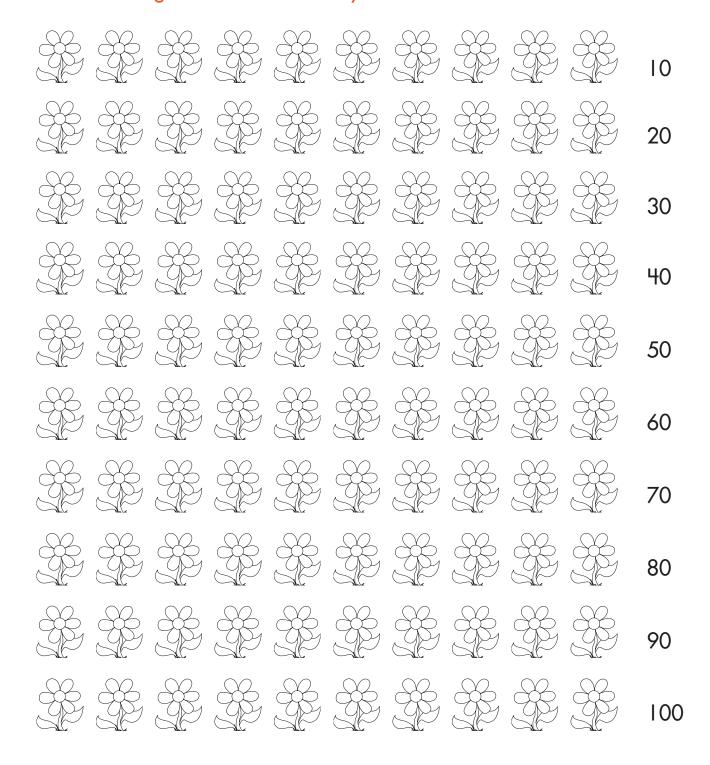
Count 100 ladybugs by ones and by tens. Then, color **61** ladybugs red. Color **39** ladybugs orange.



Count 100 ice cream cones by ones and by tens. Then, color **42** cones red. Color 23 cones brown. Color 35 cones yellow.



Count 100 flowers by ones and by tens. Then, color **26** flowers red. Color **42** flowers orange. Color **32** flowers yellow.



You can begin with any number and count on.

22 23 24 25 26 27 28

Write the missing number in each row.

8 9 10 --- 12 13 14

36 37 38 39 41 42

59 60 62 63 64 65

79 80 81 82 83 84

94 95 96 97 98 99

Stack the blocks high!
Begin with the number at the bottom. Write one number on each block to count up.















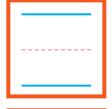


























8

19

68



Check What You Learned

Counting and Writing Numbers

I. Circle the number of objects given. Write the number on the line.

7



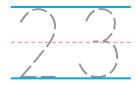
2. Write the missing number in the row. Draw the same number of circles below.

17 18

20 21 22 23

3. Count the caps by ones and by tens. Then, draw the number of caps needed to make the given number. Trace the given number.



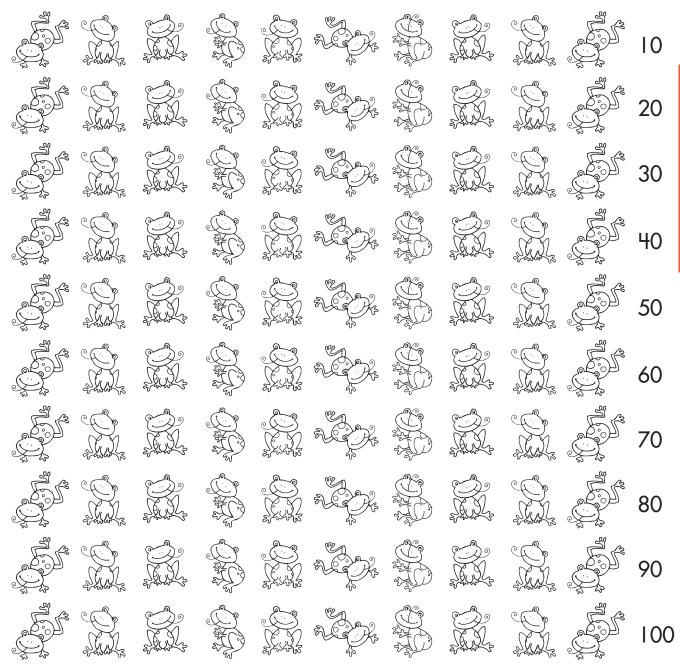




Check What You Learned

Counting and Writing Numbers

4. Count 100 frogs by ones and by tens. Then, color **66** frogs green. Color **24** frogs blue. Color **10** frogs red.





Check What You Know

Working with Numbers

1. Circle the greater number. Draw pictures to show your thinking.

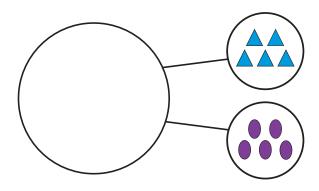
2. Count the marbles on the left. On the right, draw a group of marbles. The number of marbles on the right should be less than the number on the left.





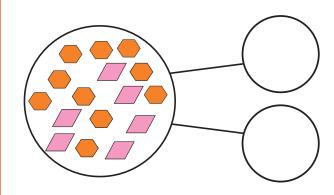


3. Draw pictures to compose the number.



5 and 5 is 10.

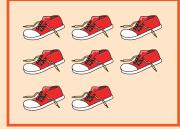
4. Draw pictures to decompose the number. Then, write the number sentence shown.



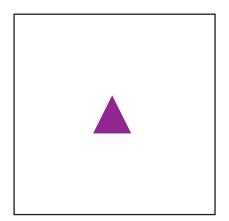
16 is _ and

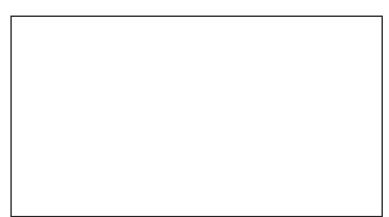
Count the objects on the left. Then, count the objects on the right. The group of objects on the right has **more than** the group of objects on the left.

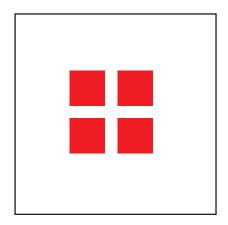


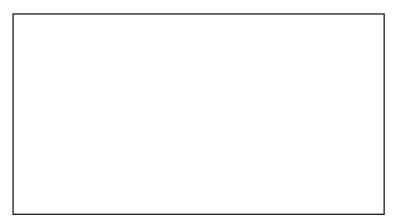


Count the objects on the left. On the right, draw a group of objects that has **more than** the group of objects on the left.









To determine the number that is greater, draw the amount of objects given under each number.

is more than



Circle the **greater** number. Draw pictures to show your thinking.

Count the objects in the box on the left. In the box on the right, write a number that is **more than** the number of objects on the left. Draw a picture to help you.



Tally Marks

$$| = |$$

$$2 = 11$$

$$3 = 111$$

$$4 = 111$$

$$5 = 1111$$

Tally marks can help you find the **greater** number.

Circle the **greater** number. Draw tally marks to show your thinking.

5

8

Look at the number. Write a number that is **greater**. Draw tally marks to show your thinking.

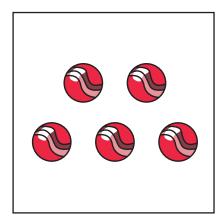
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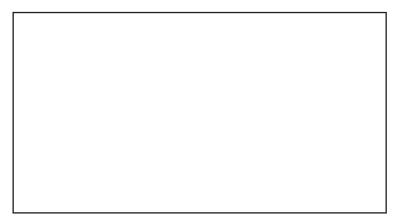
Count the stars on the left. Then, count the stars on the right. The number of stars on the right is **less than** the number of stars on the left.





Count the objects on the left. On the right, draw a group of objects. The number of objects on the left should be **less than** the number of objects on the right.







To determine the number that is less, draw the amount of objects given under each number.



is less than



Circle the number that is **less**. Draw pictures to show your thinking.

8

2

3

Count the objects on the left. On the right, write a number that is **less than** the amount on the left. Draw a picture to help you.



























Tally Marks

$$I = I$$

$$2 = 11$$

$$3 = 11$$

$$4 = 111$$

$$5 = 1111$$

Tally marks can help you find the number that is **less**.

Circle the number that is **less**. Draw tally marks to show your thinking.





Look at the number. Write a number that is **less**. Draw tally marks to show your thinking.



Write a number that is **greater than** the number given. Draw pictures to show your thinking.

2

6

Write a number that is **less** than the number given. Draw pictures to show your thinking.

7

---- | 1

Write a number that is **greater** than the number given. Draw tally marks to show your thinking.

3

5

Write a number that is **less** than the number given. Draw tally marks to show your thinking.

8

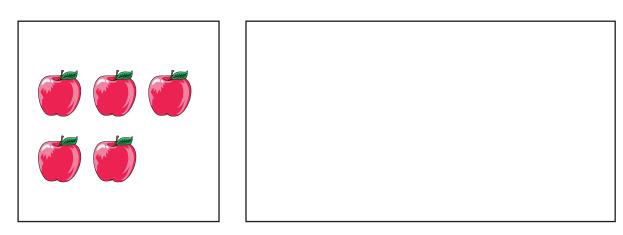
Lesson 2.1

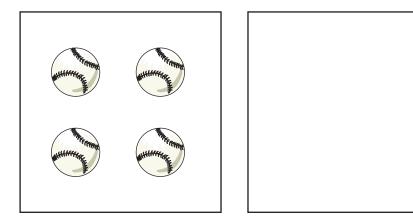
Count the objects on the left. Then, count the objects on the right.

The number of objects on the left is **equal to** the number of objects on the right.



Count the objects on the left. On the right, draw a number of objects that is **equal to** the number shown.





Count the objects on the left. On the right, write the number. Draw a number of objects that is **equal to** the number shown.





























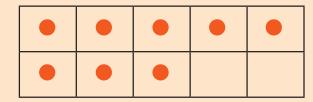




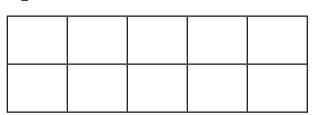


Use the ten frame to show the number.

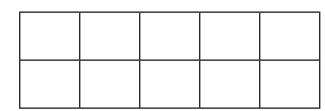
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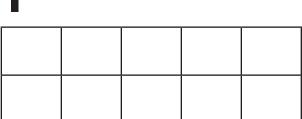


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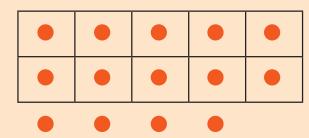
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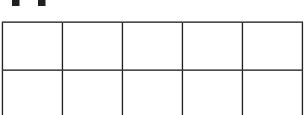




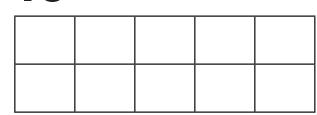
7

Use the ten frame to show the number.





16



15

19

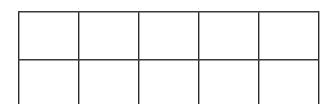
Lesson 2.2

Draw dots in each ten frame to show the number. Then, write numbers to answer the questions.

3



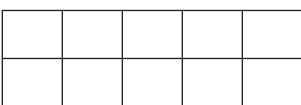
17



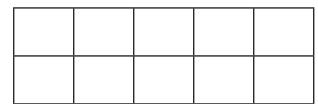
How many spaces in the ten frame are empty?

How many dots are outside the frame?

19



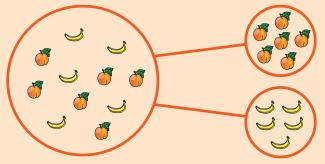
5



How many dots are inside the frame?

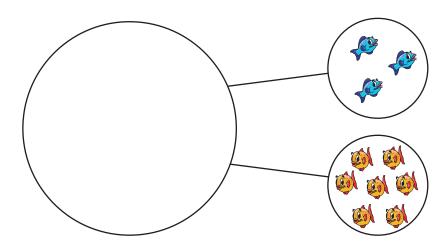
How many more dots are needed to make 10?

To compose the number 11, count the total amount of the two smaller groups.

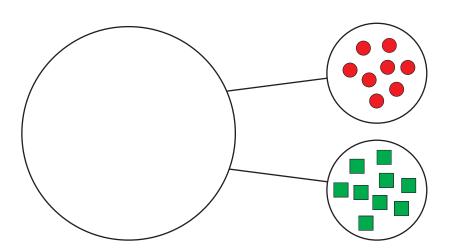


6 and 5 is 11.

Draw a picture to compose the number.

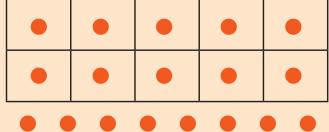


3 and 7 is 10.



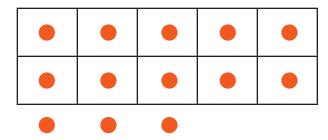
8 and 9 is 17.

You can use a ten frame and dots to show a number sentence with 10 in it.

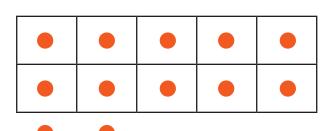


Write the number sentence shown in the ten frame.

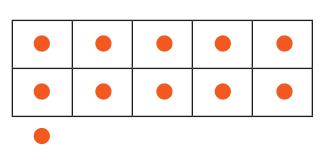
13 is ____ and ____



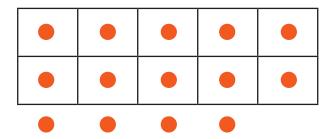
12 is ____ and ____



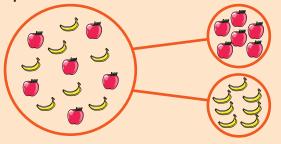
I I is ____ and ___ .



14 is ____ and ____.



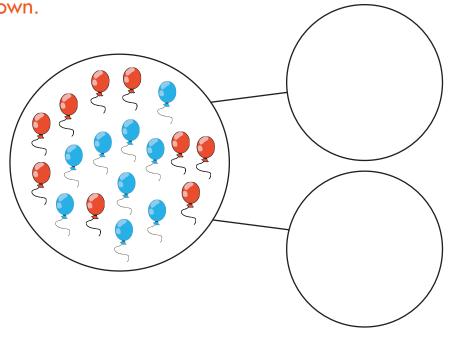
To decompose the number 13, sort the objects shown into smaller groups.



13 is _



Draw a picture to decompose the number. Then, write the number sentence shown.

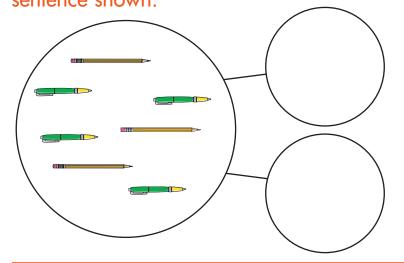


18 is ____ and ____.

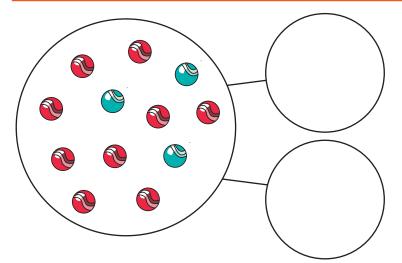
46

Lesson 2.3

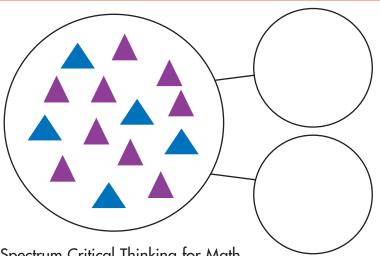
Draw a picture to decompose the number. Then, write the number sentence shown.



7 is ____ and ____



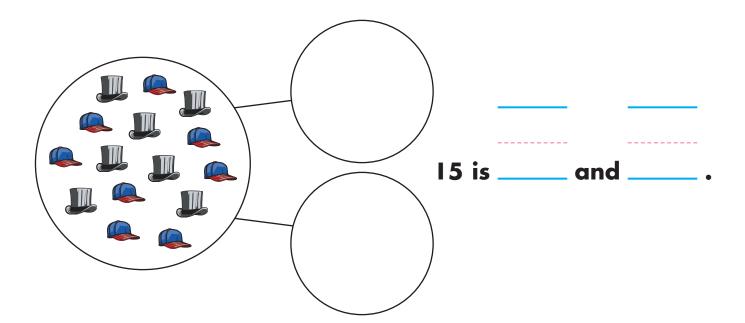
12 is ____ and ____

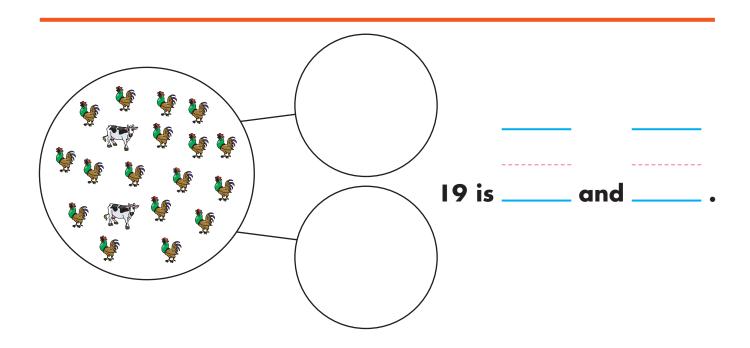


14 is ____ and ___ .

Lesson 2.3 Decomposing Numbers

Draw a picture to decompose the number. Then, write the number sentence shown.







Check What You Learned

Counting and Writing Numbers

- 1. Circle the **greater** number. Draw a picture to show your thinking.
 - 8

- 2
- 2. Count the marbles on the left. On the right, draw a group of marbles that has **more**.





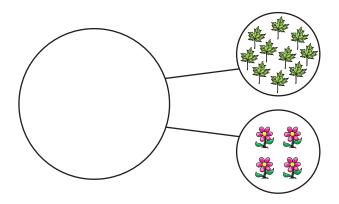






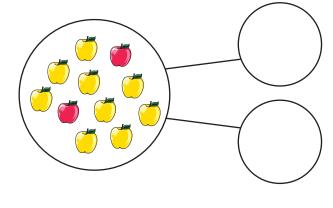


3. Draw a picture to compose the number.



10 and 4 is 14.

4. Draw a picture to decompose the number. Then, write the number sentence shown.



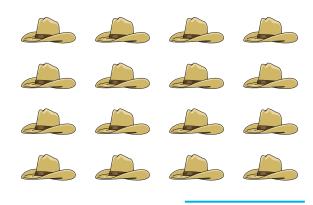
I I is _____ and ____ .

Chapters 1–2 Mid-Test

Circle the number of objects given. Then, write the number.

. 29





3. 4

























50

CHAPTERS 1-2 MID-TEST

Mid-Test Chapters 1–2

5. Count **100** balloons by ones and by tens. Then, color **45** balloons purple. Color **55** balloons yellow.

10					
20					
30					
40					
50					
60					
70					
80					
90					
100					

7.

Mid-Test Chapters 1–2

6. Circle the **lower** number. Draw a picture to show your thinking.

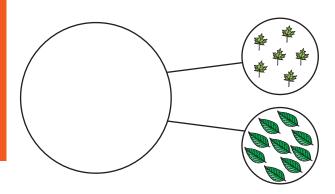
3

9

7. Count the stars on the left. On the right, draw a group of stars that has **less**.

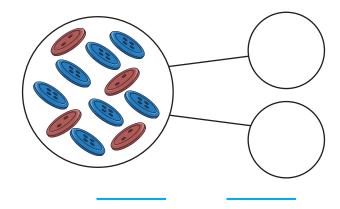


8. Draw a picture to compose the number.



6 and 9 is 15.

9. Draw a picture to decompose the number. Then, write the number sentence shown.



II is _____ and ____.



Check What You Know

Adding and Subtracting

Draw objects to represent the numbers in each problem. Then, solve the problems.

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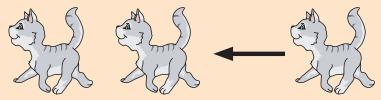
$$I + 8 =$$

5.

6.

Understanding Addition esson 3.1

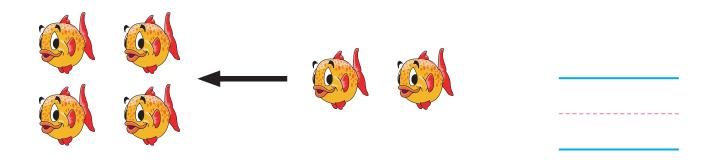
Two kittens are joined by I more kitten. How many kittens are there now? To find out, count the total number of kittens.



There are 3 kittens now.

Note to parents: Ask your child to explain his or her thinking for each answer.

1. Four fish are joined by 2 more fish. Count the total number of fish. Write the number.



2. One snail is joined by 6 snails. Count the total number of snails. Write the number.



Lesson 3.2 Understanding Subtraction

There are 3 fish in a pond. One swims away. How many fish are there now? To find out, count the number of fish that are left.

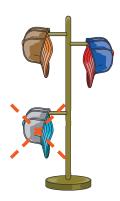




There are 2 fish left.

Note to parents: Ask your child to explain his or her thinking for each answer.

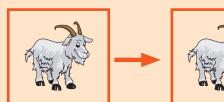
There are 3 baseball caps hanging on a hat rack. One cap is taken away. Count the number of caps that are left. Write the number.



There are 8 dogs at the dog park. Three dogs leave to go home with their owners. Count the number of dogs that are left. Write the number.

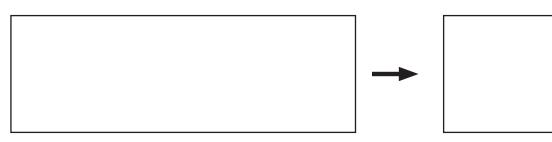


You can use objects to show the numbers in an addition problem. Then, count the total number of objects to solve.



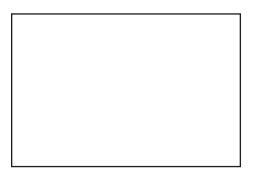


Draw objects to show the numbers in each problem. Then, count to solve the problems.



→	

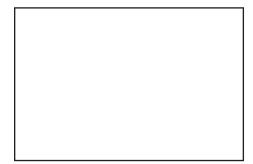
Draw objects to show the numbers in each problem. Then, count to solve the problems.



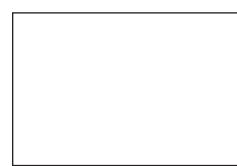




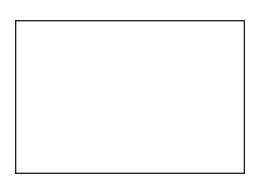




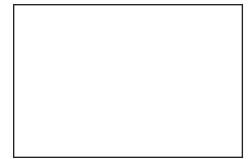




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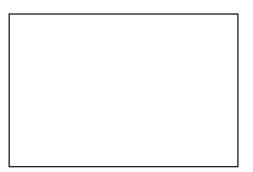


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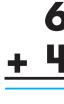
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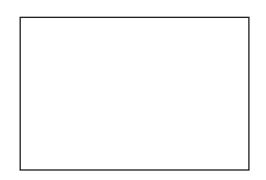
Draw objects to show the numbers in each problem. Then, count to solve the problems.











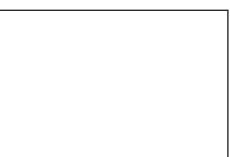




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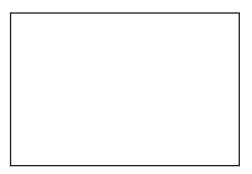
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	Ö
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Draw objects to show the numbers in each problem. Then, count to solve the problems.







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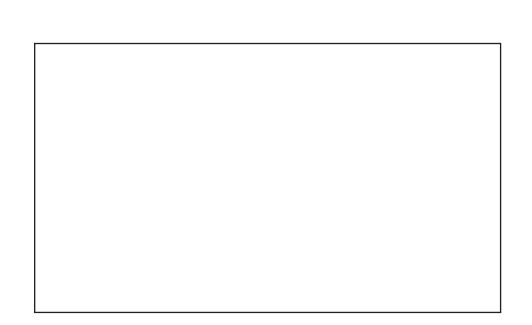
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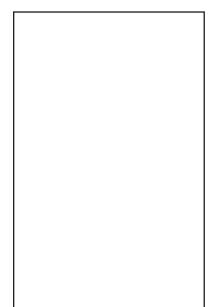
Ш

You can use objects to show the numbers in a subtraction problem. Cross out the number of objects being taken away. Then, count how many are left.

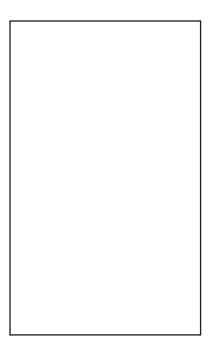
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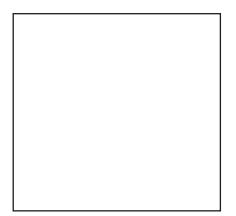


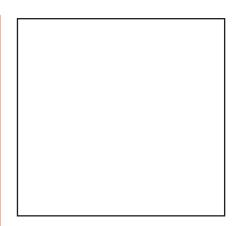




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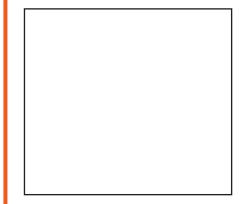




Q
2

1	

9 - 1	=	
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esson 3.5 Addition in the Real World

Daniel picked 5 apples. Sam picked 3 apples. Draw a picture to show how many apples they picked altogether.

First, draw how many apples Daniel picked. Then, draw how many apples Sam picked. Count both Daniel and Sam's apples to determine how many they picked altogether.

Daniel

Sam















5 + 3 =

Note to parents: Ask your child to explain his or her thinking for each answer.

Kady blew up 5 balloons for the harvest party. Lisa blew up 3 balloons. Draw a picture to show how many balloons the girls blew up together.

Kady

Lisa

The girls blew up _____ balloons together.

64

Lesson 3.6 Subtraction in the Real World

Ramsey has 6 cats at his house. Then, 3 cats run away. How many cats does Ramsey have now? Draw a picture to help you solve the problem.

First, draw how many cats Ramsey has. Then, cross out the number of cats that run away. Count the cats that are not crossed out to find your answer.

Ramsey



$$6 - 3 = 3$$

Note to parents: Ask your child to explain his or her thinking for each answer.

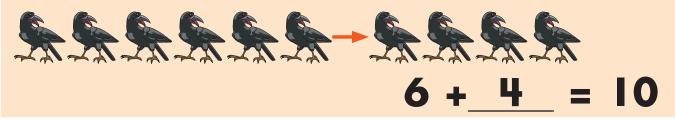
There are 4 fish in the fish tank in Mrs. Webster's room. Then, 2 fish are taken out of the tank. How many fish are left in the tank? Draw a picture to help you solve the problem.

Mrs. Webster's Fish Tank

There are _____ fish left in the tank.

Lesson 3.7 Making 10

To make 10, first count how many birds there are. Then, draw enough birds to make a group of 10. Count the number of birds you drew and write it on the line.



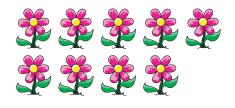
Draw objects in each box to make each group 10. Count the number of objects drawn and write it on the line.

Note to parents: Ask your child to explain how he or she came up with each answer.









66

Lesson 3.8 Making 10 in the Real World

Brooke needs to bring 10 pencils to her first day of school. She has 7 pencils. Draw more pencils to make a set of 10.

First, draw the number of pencils Brooke has. Then, as you draw more pencils, count on from 7 until you get to 10. Count the number of pencils you drew to make 10.



Note to parents: Ask your child to explain his or her thinking for each answer.

William wants to give his mom 10 flowers for Mother's Day. He has 5 flowers. Draw more flowers to make a set of 10.













William needs



more flowers to make a set of 10.

Reba needs 10 pieces of fruit to fill up her fruit basket. She has 2 pieces of fruit. Draw more fruit to show how Reba can fill her fruit basket.







Reba needs _____ more pieces of fruit to make a set of 10.

Lesson 3.9 Subtracting from 10

To subtract from 10, first draw 10 objects. Then, cross out the number of objects you want to subtract. Count the number of objects left and write it on the line.



<u>- 4</u>

Draw 10 objects for each problem. Cross out the number of objects to be subtracted. Count the number of objects left and write it on the line.

Note to parents: Ask your child to explain how he or she came up with each answer.

0
7

10 - 2



10 <u>- 1</u>

esson 3.10 Subtracting from 10 in the Real World

Jan needs 10 spoons to set the table. If she has only 8 spoons, how many more spoons does she need? Draw a picture to help you solve the problem.

First, draw 10 spoons. Then, cross out the number of spoons Jan already has. Count the spoons that are not crossed out to determine how many more spoons Jan needs.



$$10 - 8 = 2$$

Amanda needs to bring in 10 cans of food for her class food drive. If she has only 9 cans of food, how many more cans does she need? Draw a picture to help you solve the problem.

Amanda needs ____ can(s) of food.

Quan needs 10 red beads to make his necklace. He has 4 red beads. How many more red beads does Quan need? Draw a picture to help you solve the problem.

Quan needs _____ red bead(s).



Check What You Learned

Adding and Subtracting

Draw objects to represent the numbers in each problem. Then, solve the problems.

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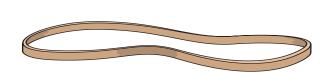
Chapter 3



Check What You Know

Measurement and Data

1. Draw an object that is **shorter** than a rubber band.



2. Draw an object that is **taller** than a giraffe.



3. Draw an object that is **heavier** than a balloon.

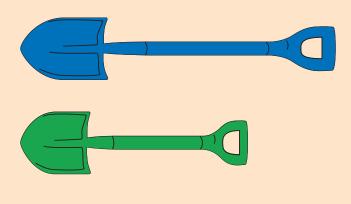


4. Sort this group of objects into 2 smaller groups of objects. Draw a picture to show your thinking. Count how many of each object is in each group and write it on the lines below.

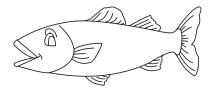


Lesson 4.1 Longer and Shorter

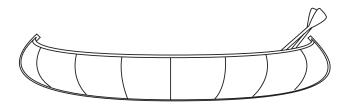
The blue shovel is **longer** than the green shovel. The green shovel is **shorter** than the blue shovel.



Draw a fish that is **longer** than the fish shown.



Draw a canoe that is **shorter** than the canoe shown.



Lesson 4.1 Longer and Shorter

Draw an object that is **longer** than the key.



Draw an object that is **shorter** than the seashell.



Draw an object that is **shorter** than the pink ribbon.



Lesson 4.2 Taller and Shorter

The dog is **taller** than the mouse. The mouse is **shorter** than the dog.

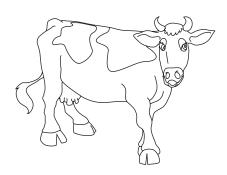




Draw an animal that is taller than the goat.



Draw an animal that is **shorter** than the cow.



Lesson 4.2 Taller and Shorter

Draw an object that is **shorter** than the swing set.



Draw an object that is **taller** than the wading pool.

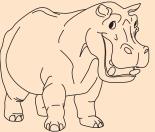


Draw an object that is **shorter** than the basketball hoop.



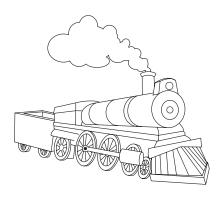
Lesson 4.3 Heavier and Lighter

The hippopotamus is **heavier** than the cat. The cat is **lighter** than the hippopotamus.





Draw something that is **lighter** than a train.

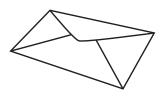


Draw something that is **heavier** than a snail.



Lesson 4.3 Heavier and Lighter

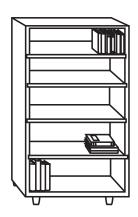
Draw an object that is **heavier** than an envelope.



Draw an object that is **lighter** than a school bus.



Draw an object that is **heavier** than a bookcase.



Lesson 4.4 Sorting and Classifying Objects

To sort a group of objects, put different objects in separate groups. Count to find out how many objects are in each group.





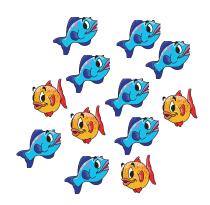


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Sort each group of objects into separate groups. Count the number in each group and write it on the line.

Note to parents: Ask your child to explain his or her thinking for each answer.



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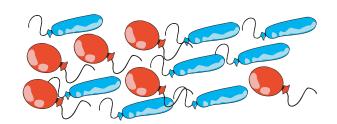


Lesson 4.4 Sorting and Classifying Objects

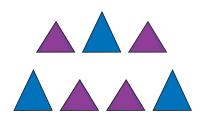
Sort each group of objects into separate groups. Count the number in each group and write it on the line.

Note to parents: Ask your child to explain his or her thinking for each answer.





Coop C	(6.0)	(60)	(°°°)
	(000)	(000)	(in)



Lesson 4.4 Sorting and Classifying Objects

Sort this group of objects into 3 smaller groups of objects. Draw a picture to show your thinking. Count how many of each object is in each group and write it on the lines below.



Hats Pairs of shoes



Check What You Learned

Measurement and Data

1. Draw an object that is **longer** than the spoon.



2. Draw an object that is **lighter** than a house.



3. Sort this group of objects into 2 smaller groups of objects. Draw a picture to show your thinking. Count how many of each object is in each group and write it on the lines below.





Check What You Know

Geometry

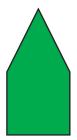
1. Draw 2 different **plane** shapes.

2. Draw 2 different **solid** shapes.

3. Draw 2 more real-world objects that are shaped like a circle.



4. What shapes can you put together to make the following shape?

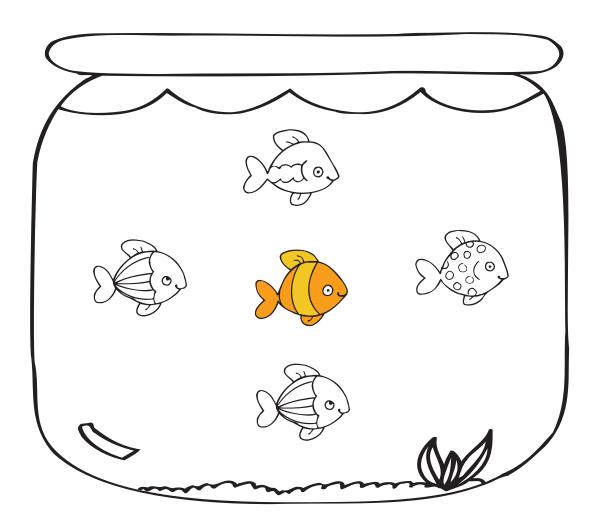




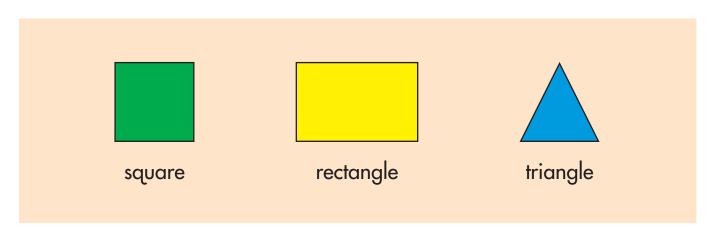
Check What You Know

Geometry

5. **Above** the orange fish, color I fish blue. **Below** the orange fish, color I fish red. Draw I fish **next** to the orange fish.

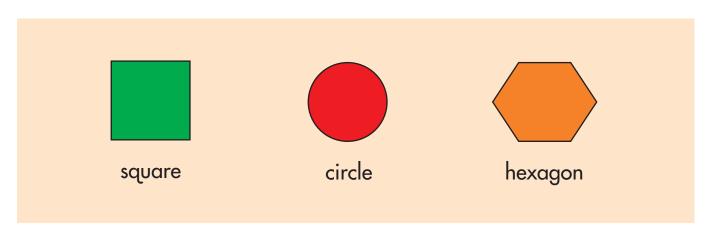


Lesson 5.1 Plane Shapes



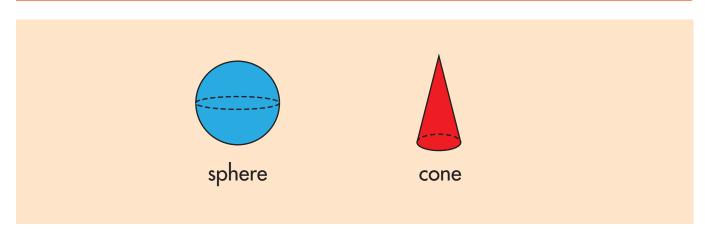
Draw a picture below using at least 2 squares, 1 rectangle, and 2 triangles.

Lesson 5.1 Plane Shapes



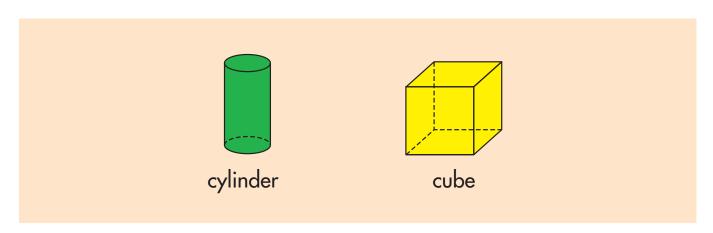
Draw a picture below using at least 4 circles, 2 squares, and 1 hexagon.

Lesson 5.2 Solid Shapes



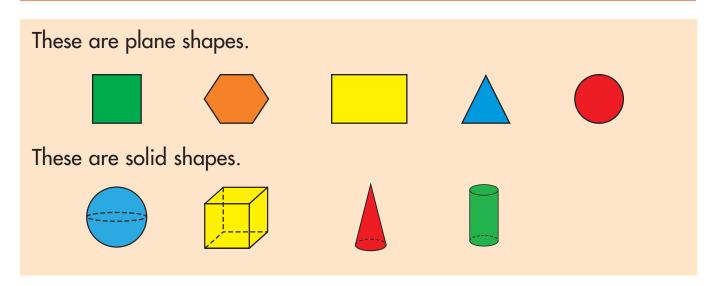
Draw a picture below using at least 3 spheres and 2 cones.

Lesson 5.2 Solid Shapes



Draw a picture below using at least 2 cylinders and 2 cubes.

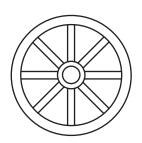
Lesson 5.3 Plane and Solid Shapes

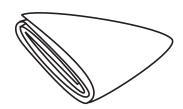


Draw a picture using at least 2 plane shapes and 2 solid shapes.

Lesson 5.4 Sorting Shapes in the Real World

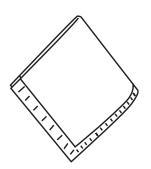
Go on a shape hunt. Draw all the circle-shaped objects and triangle-shaped objects in the room you are in. Draw those objects in the correct columns below.





Lesson 5.5 Drawing Shapes in the Real World

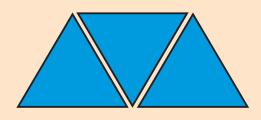
Think of objects that are shaped like squares and rectangles. Draw those objects below.

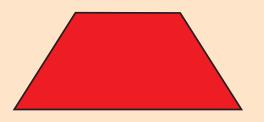




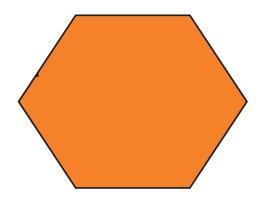
Lesson 5.6 Combining Shapes

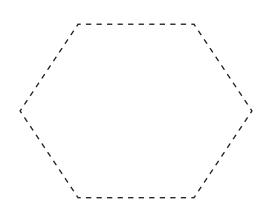
You can combine three triangles to make a trapezoid.

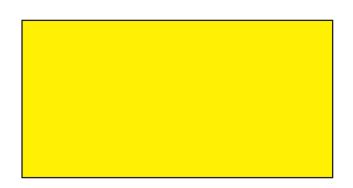




What shapes can you put together to make the following shapes? You can draw on top of the shapes or use pattern blocks to help you.





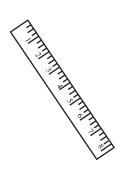




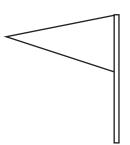
Lesson 5.7 Finding Shapes in the Real World

Go on a shape hunt. Draw all the objects in the room that are in the shape of a circle, rectangle, square, or triangle. Be sure you are able to tell what shape the object is!









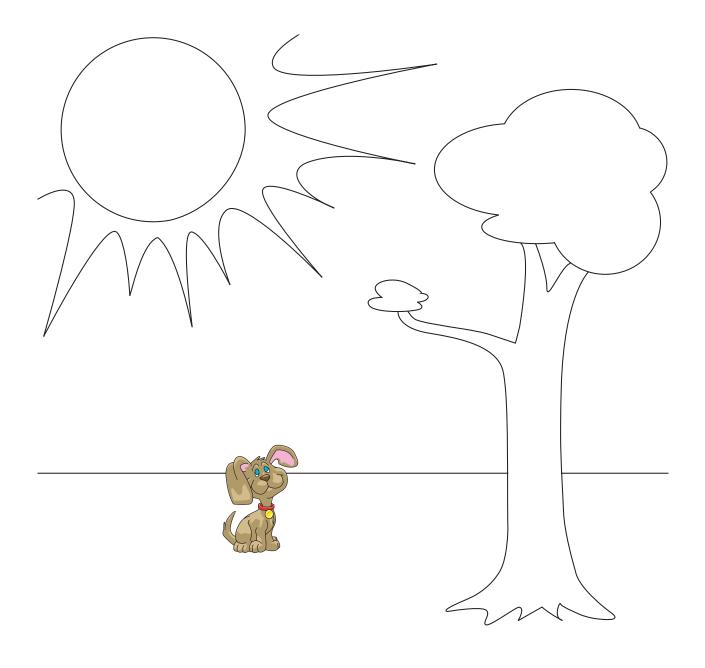
Lesson 5.8 Above, Below, and Next To

Draw I animal **above** the dog.

Draw I animal **below** the dog.

Draw I object **below** the dog.

Draw 2 objects that are **next** to each other.



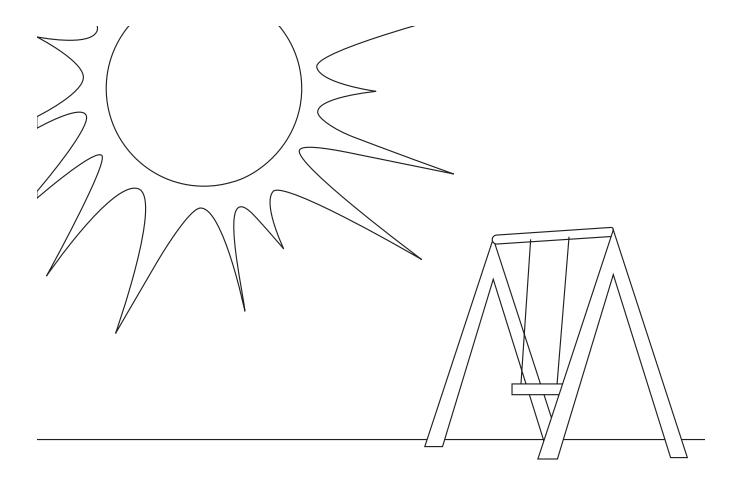
Lesson 5.8 Above, Below, and Next To

Draw 2 animals **above** the swing set.

Draw I animal that is **below** the sun.

Draw I object that is **below** the sun.

Draw 2 objects that are **next** to each other.





Check What You Learned

Geometry

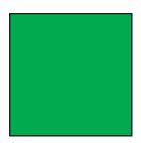
1. Draw 3 different **plane** shapes.

2. Draw 3 different **solid** shapes.

3. Draw 2 more real-world objects that are shaped like a **triangle**.



4. What shapes can you put together to make the following shape?



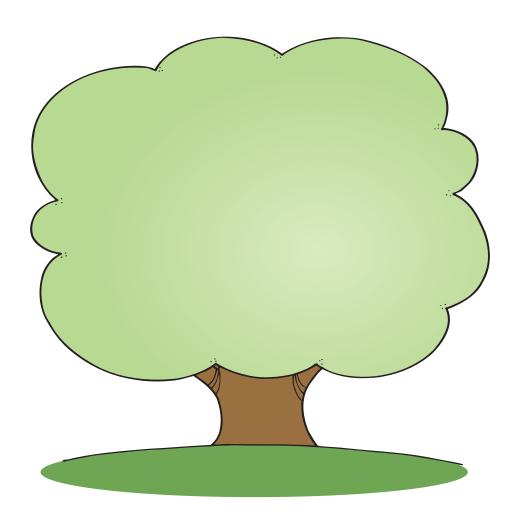


Check What You Learned

Geometry

Follow the directions.

- -Draw I animal **next** to the tree.
- -Draw I flower **below** the tree.
- -Draw 2 birds **above** the tree.



Draw objects to make the number given. Then, write the number.

I. **7**



....

^{2.} **15**



3. **9**



4.

12

- 5. Circle the greater number. Draw a picture to show your thinking.
 - 8

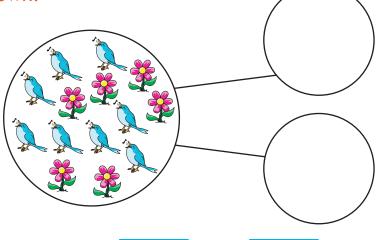
- 3
- 6. Count the hexagons on the left. On the right, draw a group of hexagons that has **less than** the group on the left.







7. Draw a picture to decompose the number. Then, write the number sentence shown.



14 is ____ and ____.

Draw objects to represent the numbers in each problem. Then, solve the problems.

8.

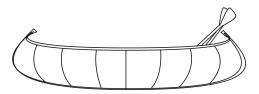
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10.

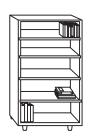
11.

$$10 - 2 =$$

12. Draw an object that is longer than a canoe.



13. Draw an object that is heavier than a bookshelf.



14. Look at the pictures in the two rows. In each row, circle the picture that goes together with the first picture.













100

CHAPTERS 1-5 FINAL TEST

Final Test Chapters 1–5

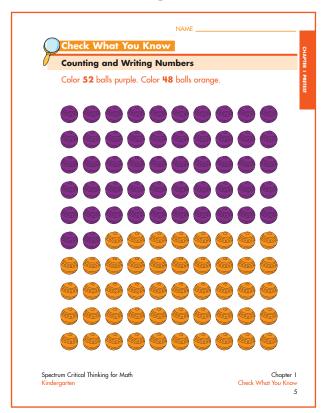
- 15. Draw a picture that has these items:
 - 2 different **plane** shapes **next to** each other
 - I **solid** shape **below** the plane shapes
 - I **solid** shape **above** the plane shapes
 - I real object shaped like a rectangle
 - I real object shaped like a circle



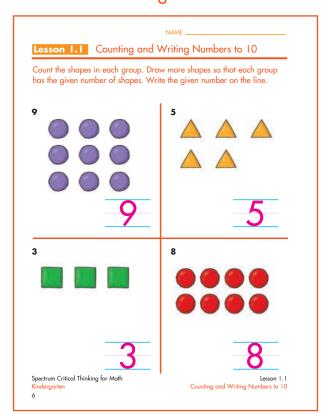
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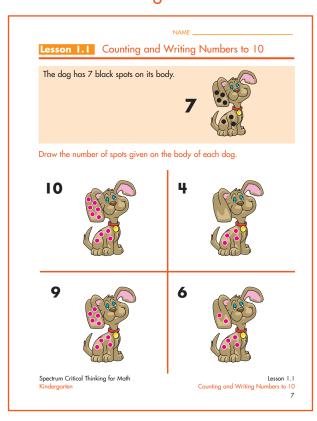
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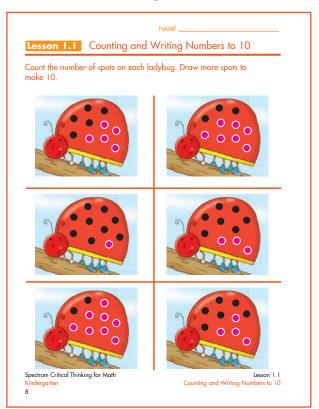


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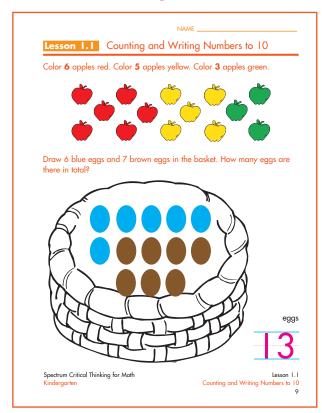


Answer Key

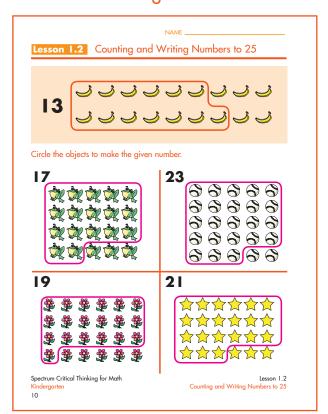
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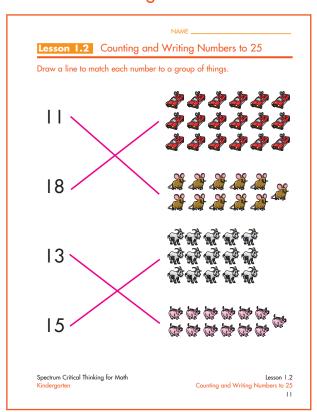
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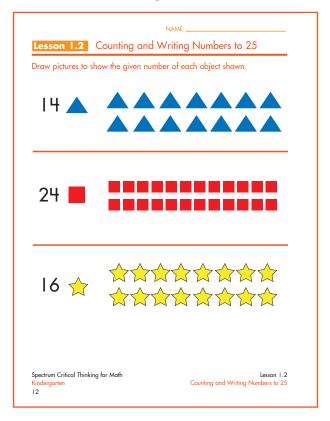
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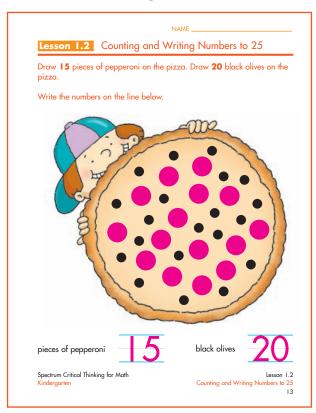
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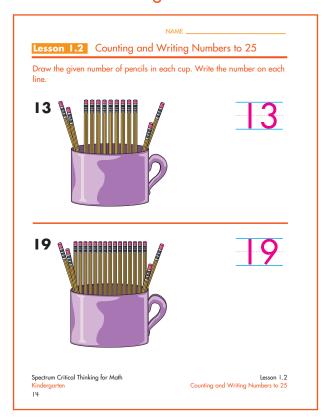
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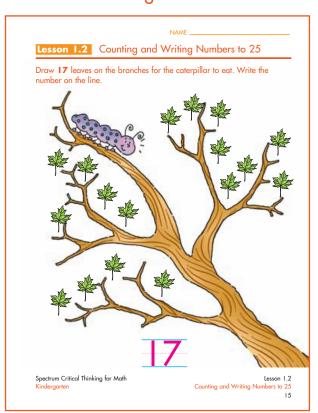
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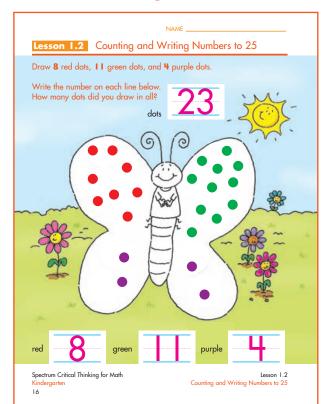
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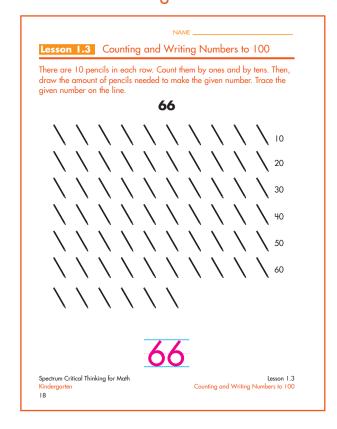
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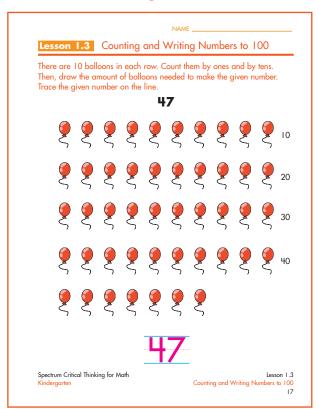
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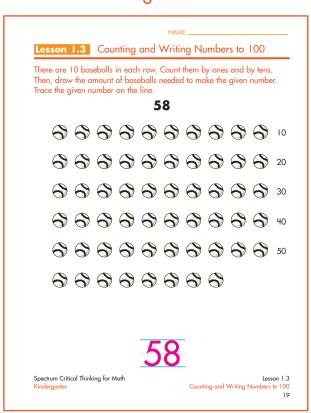
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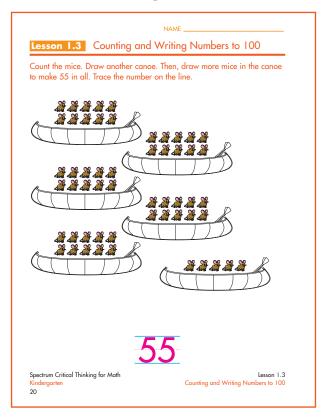
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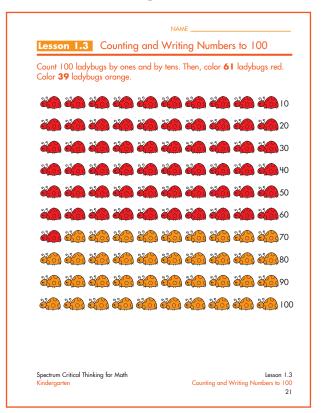
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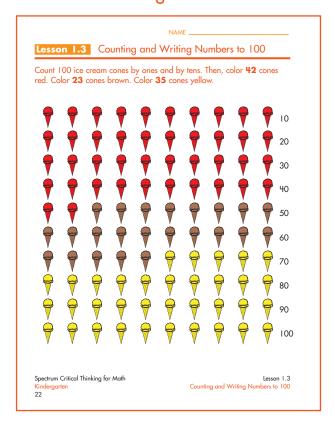
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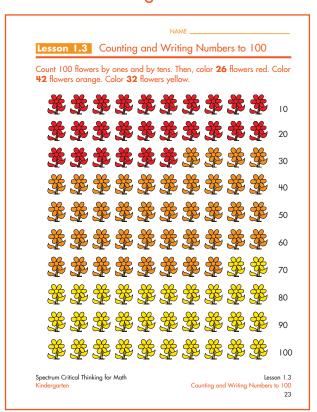
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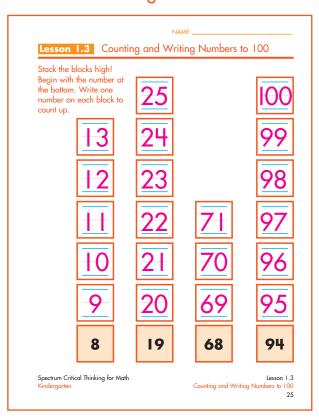


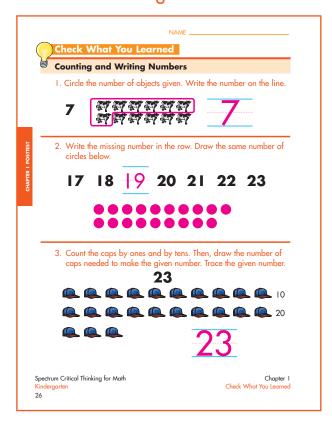
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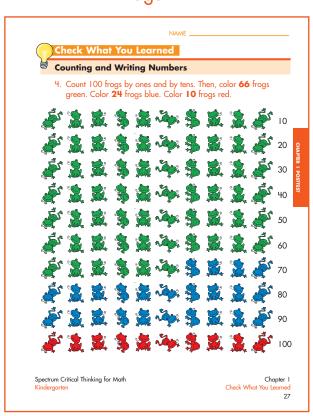
Lesson 1.3 Counting and Writing Numbers to 100 You can begin with any number and count on. 22 23 24 25 26 27 28 Write the missing number in each row. 39 40 I Spectrum Critical Thinking for Math Lesson 1.3 Counting and Writing Numbers to 100

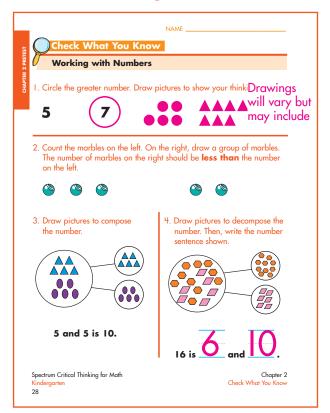
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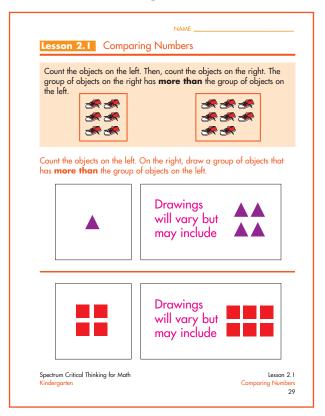




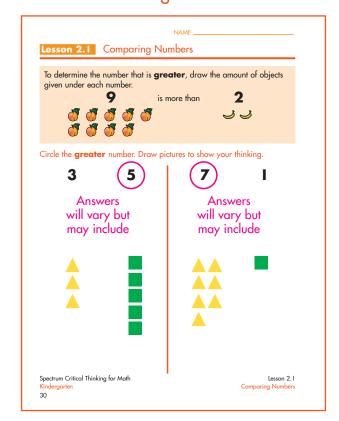
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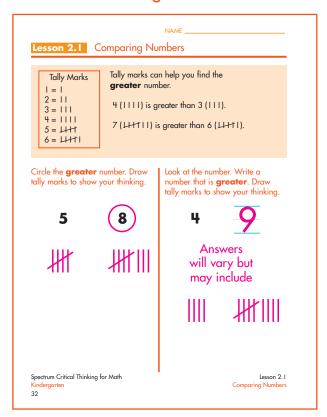


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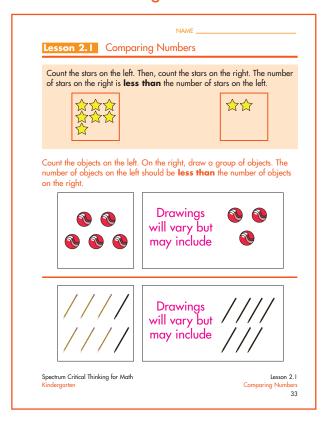


Answer Key

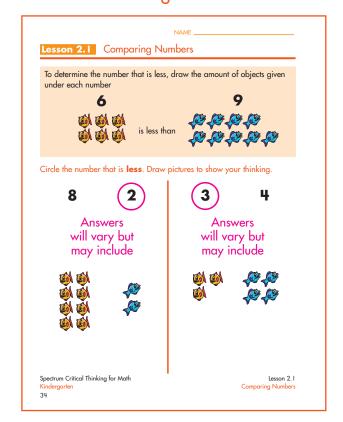
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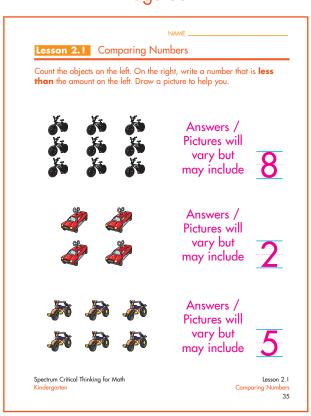
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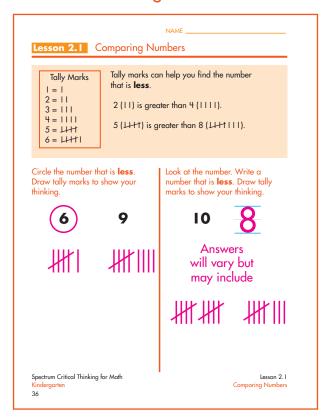


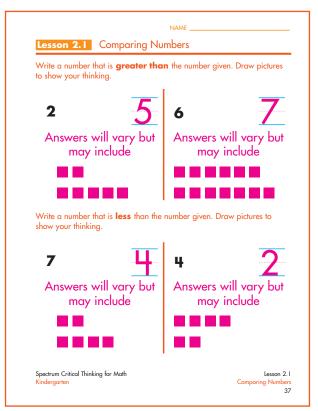
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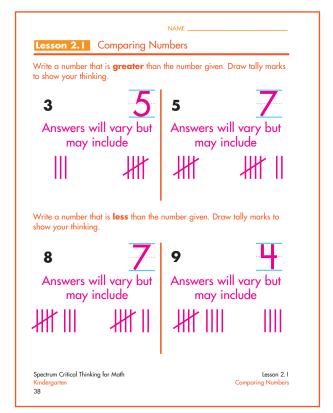
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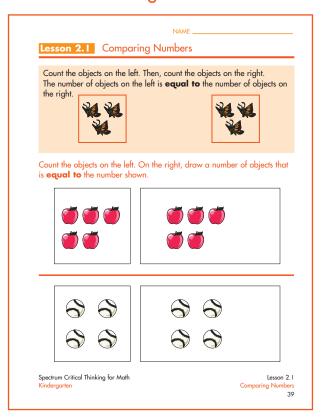




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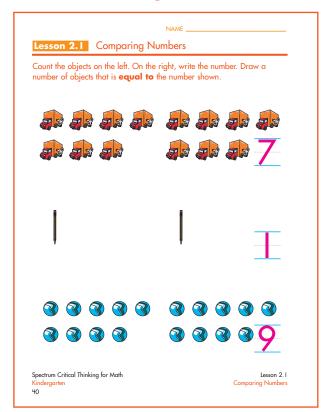


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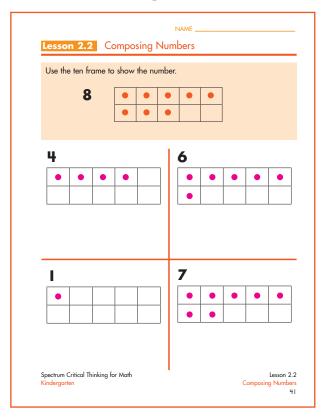




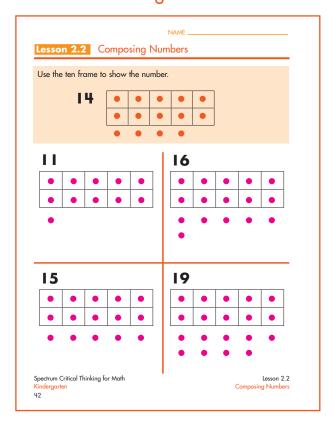
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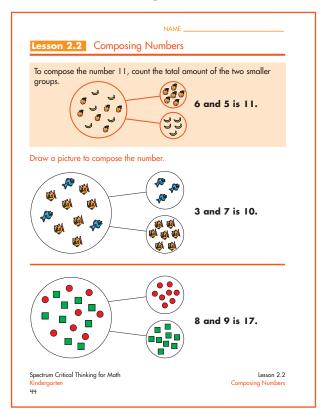


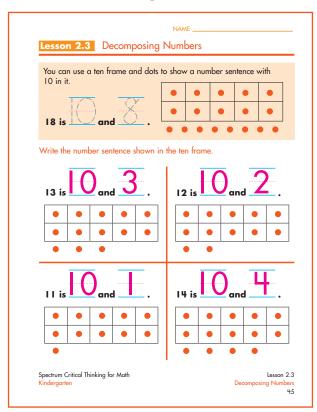
Page 43

	e to show	the number. Then, write number.	bers
answer the questions.		l	
3		17	4
		• • • •	•
		• • •	•
How many spaces	_		
in the ten frame are empty?		How many dots are outside the frame?	7
		are outside the	7
are empty?	•	are outside the frame?	7
are empty?	•	are outside the frame?	•
are empty?	•	are outside the frame?	•

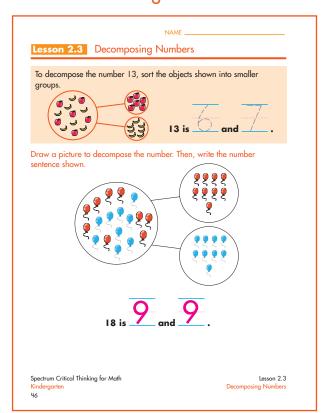
Answer Key

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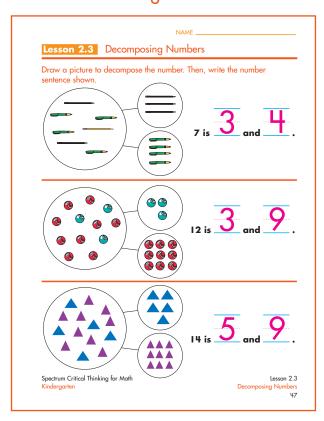




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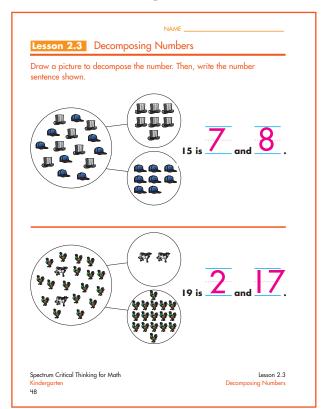


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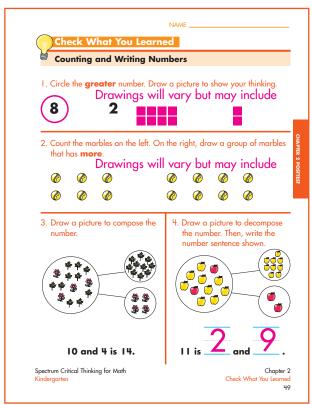


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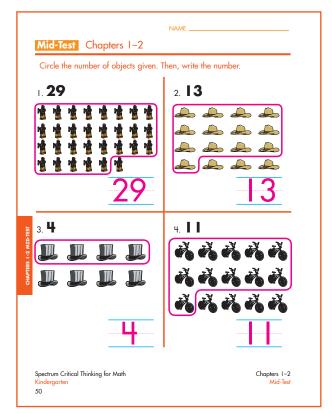
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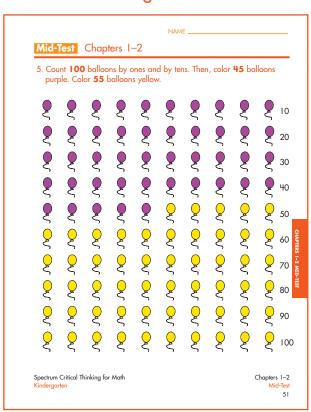
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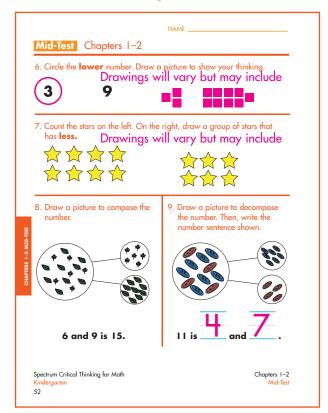


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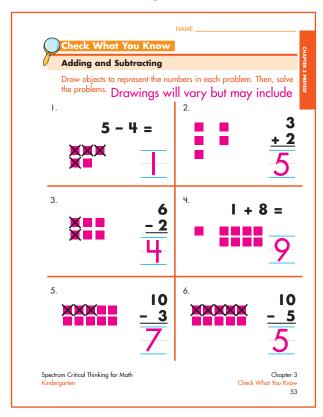


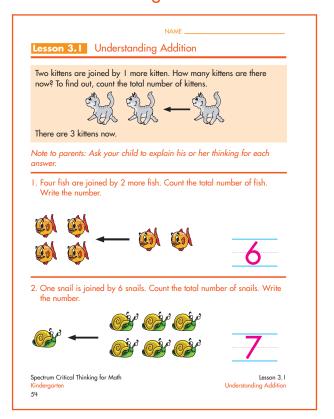
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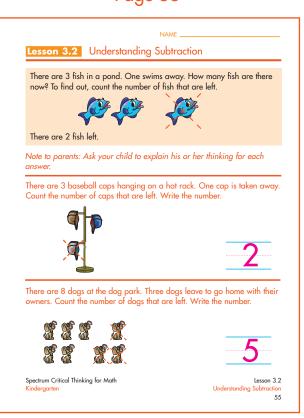


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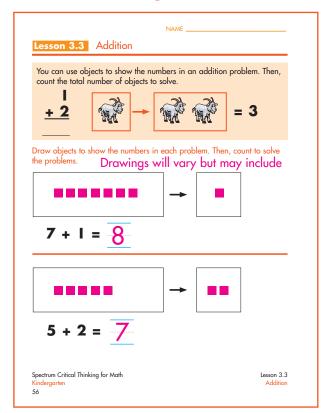




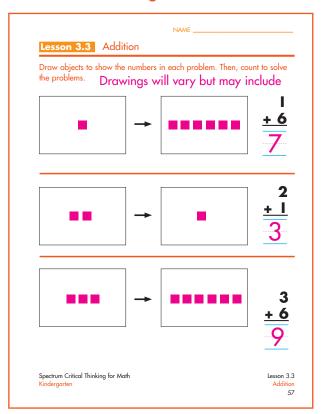
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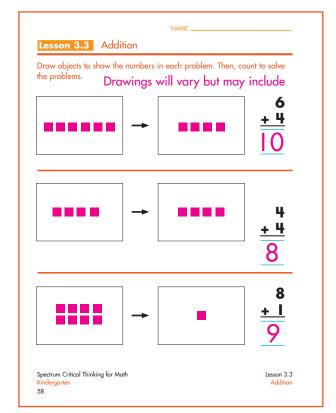
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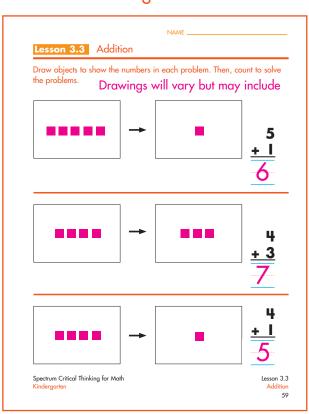
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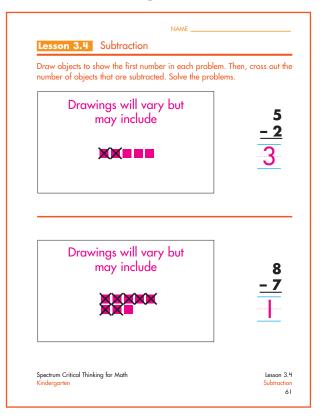


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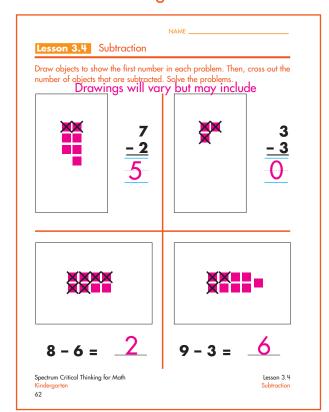


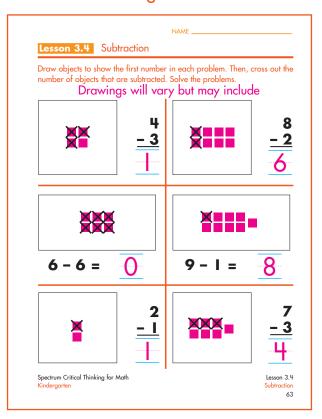
Provided Thinking for Math Kindergarten 60 You can use objects to show the numbers in a subtraction problem. Cross out the number of objects being taken away. Then, count how many are left. The provided Thinking for Math Spectrum Critical Thinking for Math Kindergarten 60 You can use objects to show the numbers in a subtraction problem. Then, count how many are left. The provided Thinking for Math Subtraction problem. Then, count how many are left. The problem of the problem. Then, cross out the number of objects that are subtracted. Solve the problems. Drawings will vary but may include Thinking for Math Subtraction for Math Subtraction for the number of objects that are subtracted. Solve the problems. The problem of the problem of the number of objects that are subtracted. Solve the problems. The problem of the number of objects that are subtracted. Solve the problems. The problem of the number of objects that are subtracted. Solve the problems. The problem of the number of objects that are subtracted. Solve the problems. The problem of the number of objects that are subtracted. Solve the problems. The problem of the number of objects that are subtracted. Solve the problem. Then, cross out the number of objects that are subtracted. Solve the problems. The problem of the number of objects the number of obj

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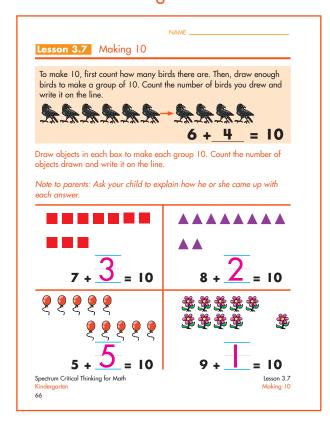
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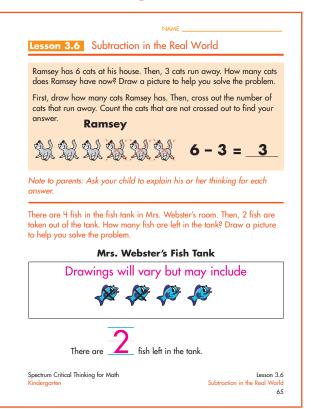


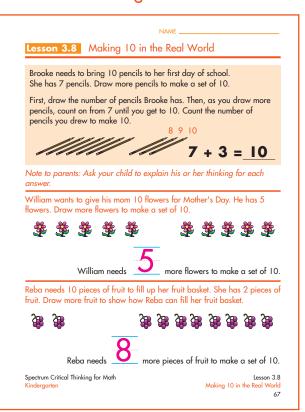


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To subtract from 10, first draw 10 objects. Then, cross out the number of objects you want to subtract. Count the number of objects left and write it on the line.

Draw 10 objects for each problem. Cross out the number of objects to be subtracted. Count the number of objects left and write it on the line.

Note to parents: Ask your child to explain how he or she came up with each answer.

Drawings will vary but may include

10

-7

-7

-7

Spectrum Critical Thinking for Math Kindergarten

10

Spectrum Critical Thinking for Math Kindergarten

10

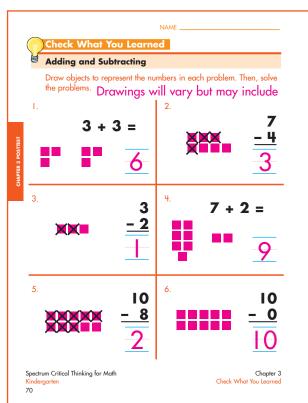
Lesson 3.9

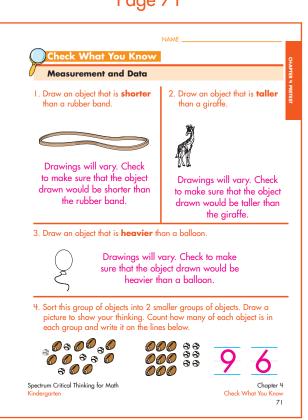
Subtracting from 10

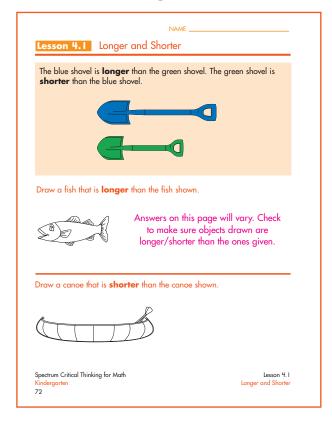
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Lesson 3.10 Subtracting from 10 in the Real World Jan needs 10 spoons to set the table. If she has only 8 spoons, how many more spoons does she need? Draw a picture to help you solve the First, draw 10 spoons. Then, cross out the number of spoons Jan already has. Count the spoons that are not crossed out to determine how many more spoons Jan needs. 10 - 8 = 2Amanda needs to bring in 10 cans of food for her class food drive. If she has only 9 cans of food, how many more cans does she need? Draw a picture to help you solve the problem. Drawings will vary but may include Amanda needs can(s) of food. Quan needs 10 red beads to make his necklace. He has 4 red beads. How many more red beads does Quan need? Draw a picture to help you Drawings will vary but may include red bead(s). Spectrum Critical Thinking for Math Subtraction from 10 in the Real World

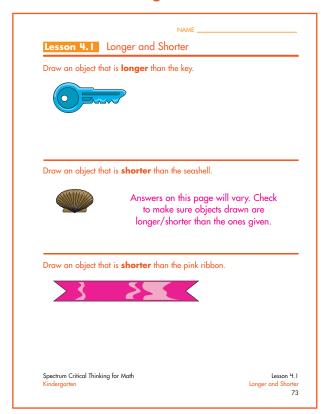
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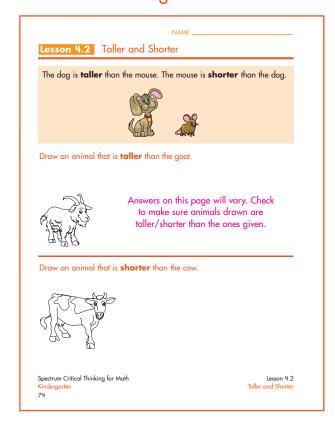




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	NAME
Lesson 4.2 Taller and Sh	orter
Draw an object that is shorter the	in the swing set.
Draw an object that is taller than	the wading pool.
t t	wers on this page will vary. Check o make sure objects drawn are ller/shorter than the ones given.
Draw an object that is shorter that	n the basketball hoop.
Spectrum Critical Thinking for Math Kindergarten	Lesson 4.2 Taller and Shorter 75

The hippopotamus is heavier than the cat. The cat is lighter than the hippopotamus.

Draw something that is lighter than a train.

Answers on this page will vary. Check to make sure objects drawn are heavier/lighter than the ones given.

Draw something that is heavier than a snail.

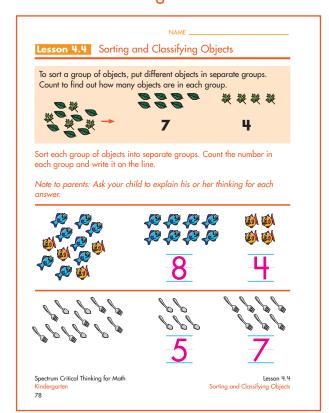
Spectrum Critical Thinking for Math Kindergarten

Lesson 4.3
Heavier and Lighter

Page 77

NAME	
Lesson 4.3 Heavier and Lighter	
Draw an object that is heavier than an envelope.	
Draw an object that is lighter than a school bus.	
Answers on this page will vary. Check to make sure objects drawn are heavier/lighter than the ones given.	
Draw an object that is heavier than a bookcase.	
Spectrum Critical Thinking for Math Lesson 4.3 Kindergarten Heavier and Lighter 77	

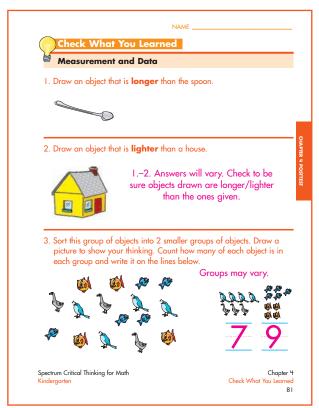
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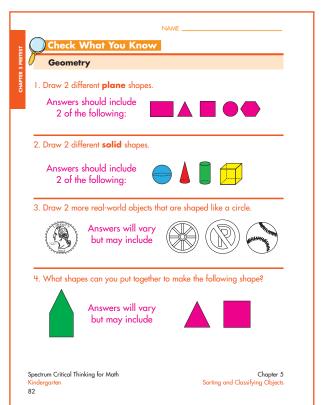
	NAME
Lesson 4.4 Sorting and	Classifying Objects
Sort each group of objects into sep each group and write it on the line	poarate groups. Count the number in e.
Note to parents: Ask your child to answer.	explain his or her thinking for each
	, 11 <u>11</u> 111 1111 11
	<u>7</u> <u>J</u>
	77
	3 4
Spectrum Critical Thinking for Math	Lesson 4.4 Sorting and Classifying Objects



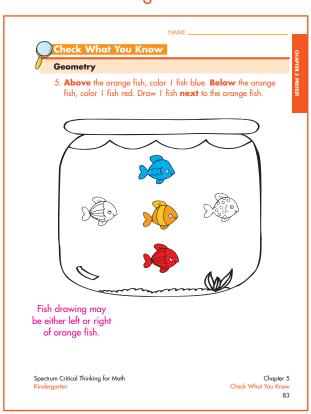
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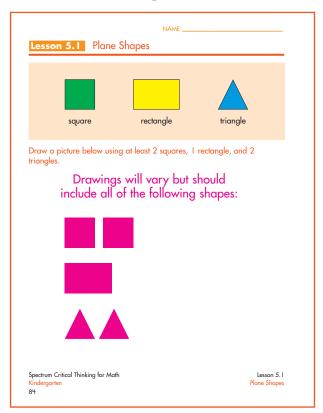
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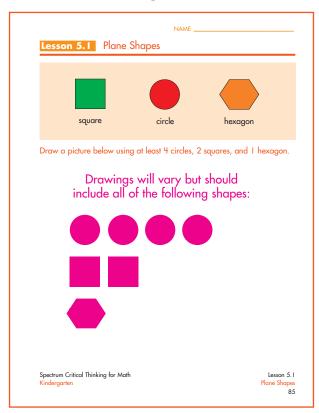
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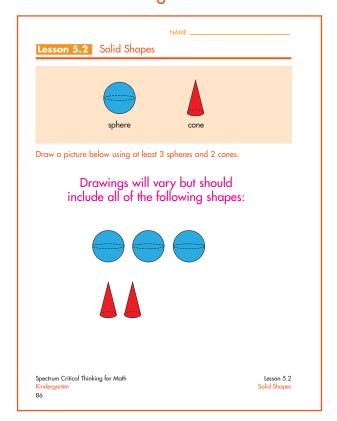
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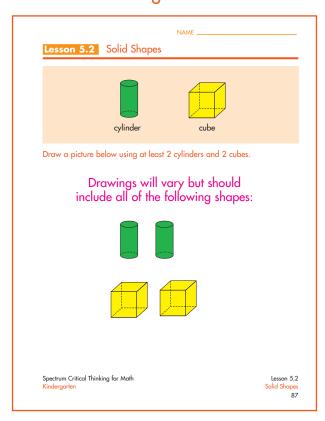
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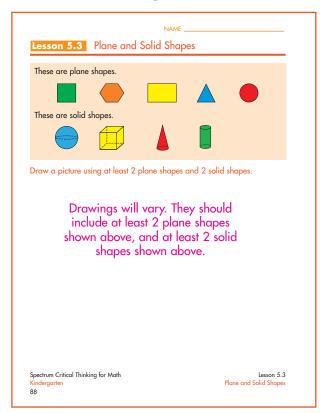


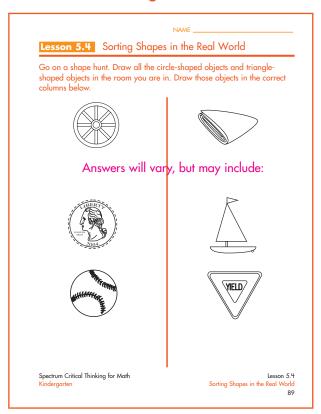
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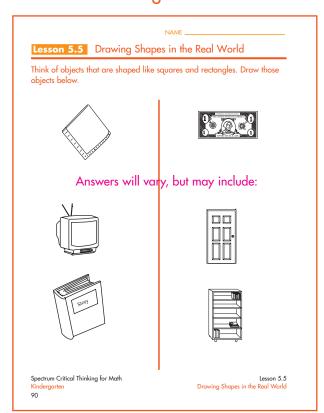
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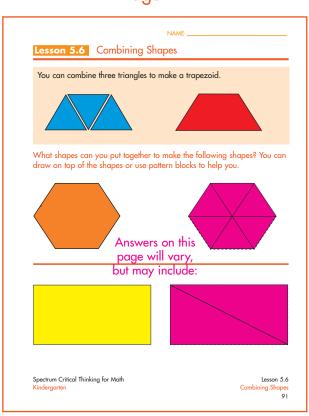


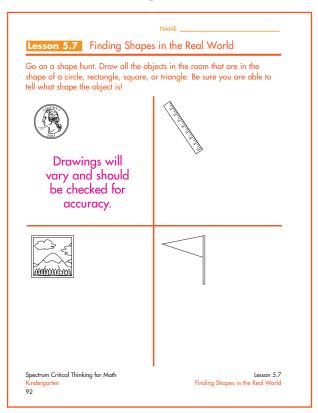


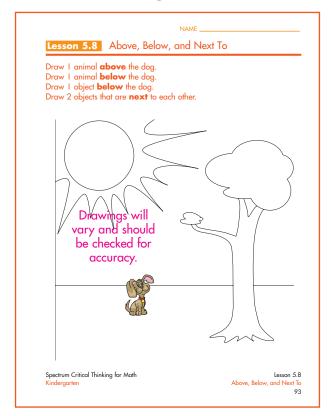
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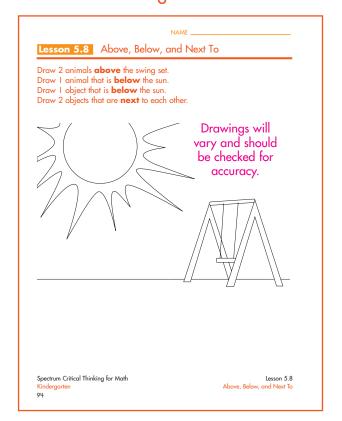
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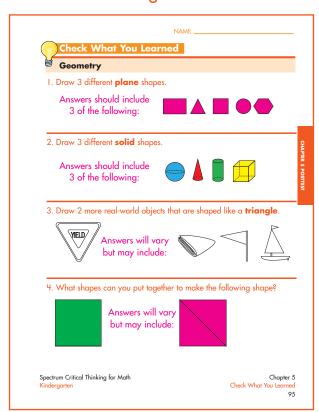




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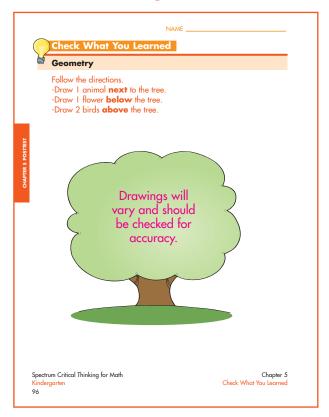


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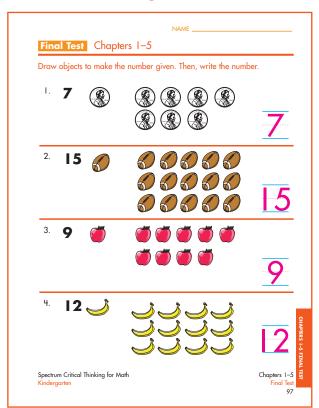




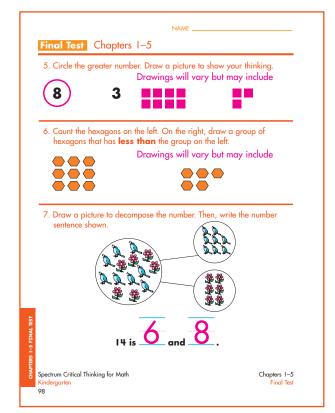
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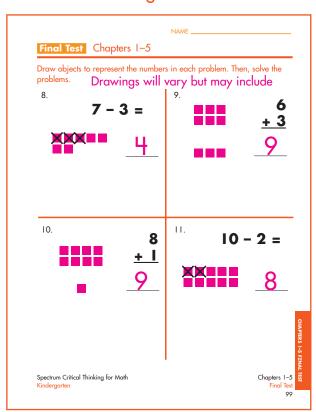
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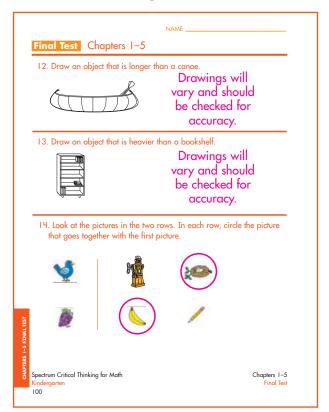


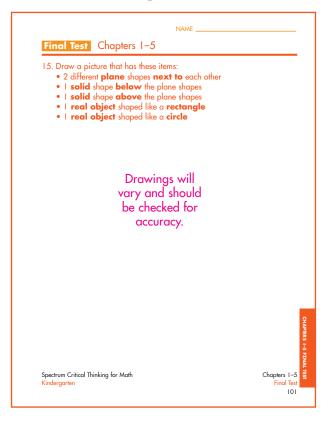
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NAME	

Notes

NAME	

Notes

Stop the summer slide. Start Summer Bridge Activities[®].

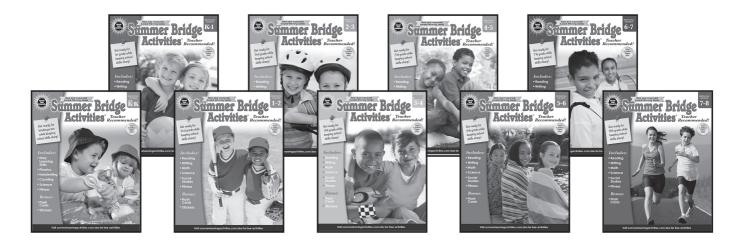
You've probably heard of "summer learning loss," or the "summer slide." Studies have shown that children can *lose up to 2.5 months of learning* over the summer. But did you know that summer learning loss could have a cumulative effect with a long-term impact on children's skills and success?

Summer Bridge Activities® are an easy, effective, and fun way to keep your child's mind sharp all summer long.

Inside each book you'll find:

- * Essential math, language arts, reading, social studies, science, and character development skills
- * Encouraging stickers and certificates to keep kids motivated
- * Outdoor fitness activities to keep them moving
- * Free access to the **Summer Bridge Activities**® online companion site

With **Summer Bridge Activities**®, your child will be on track for a terrific school year, and beyond. That's why we say; *just 15 minutes a day goes a long way!*



Newly updated, *Summer Bridge Activities*® books align to the Common Core and state standards.



Critical Thinking for Math

Supporting your child's educational journey every step of the way.

Spectrum® provides specific support in the skills and standards that your child is learning in today's classroom.

- Comprehensive, grade-specific titles to prepare for the year ahead
- Subject-specific practice to reinforce classroom learning
- Skill-specific titles to enrich and enhance educational concepts
- Test preparation titles to support test-taking skills

No matter your need, Spectrum is with you every step of the way.

Spectrum is available in these titles for kindergarten success:



