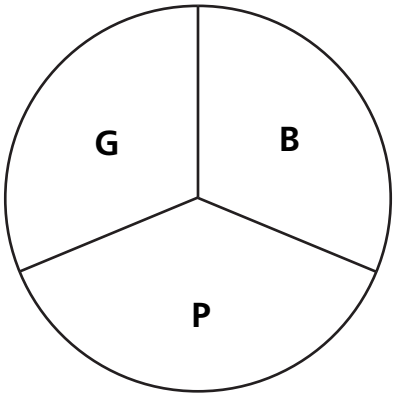
Name _____ Date _____

Practice
Lesson 1

Finding Combinations of Attributes

1 This spinner is divided into 3 equal parts.



G = green
B = blue
P = purple

Continue the list until you have listed all possibilities.

Not all of the blanks will be used.

If you spin the spinner twice, you could get:

1st Spin	2nd Spin
G	B
G	G

Test Prep

2 What number must replace the square to make the number sentence true?

$(4 \times 5) + 2 = \blacksquare \times 2$

A. 20 **C.** 14

B. 11 **D.** 9

3 What numbers must replace the ● and the ■ to make both number sentences true?

$● \times \blacksquare = 36$

$● - \blacksquare = 5$

A. 6, 6 **C.** 9, 4

B. 4, 9 **D.** 12, 3

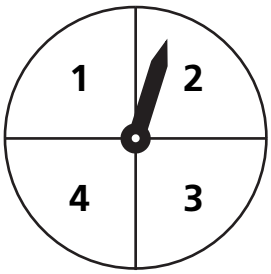
Name _____ Date _____

Practice
Lesson 2

Describing the Likelihood of An Event

1 Complete the table to show what the sum of the two spins could be.

Johnny spins the spinner twice.



		1ST SPIN			
		1	2	3	4
2ND SPIN	1	2	3		
	2				
	3				
	4				

2 Label the events **certain, likely, unlikely,** or **impossible.**

The sum is 10.

_____

The sum is 7.

_____

The sum is greater than 0.

_____

The sum is less than 7.

_____

The sum is 4, 5, or 6.

_____

The sum is 2.

_____

Test Prep

3 Sue needs only the red candies from bags of mixed colors. Each bag contains 28 candies, of which $\frac{1}{4}$ are red. How many bags should Sue buy if she needs 21 red candies? Explain.

_____

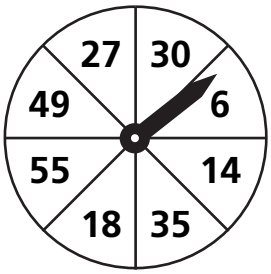
_____

Name _____ Date _____

Practice
Lesson 3

Introducing Probability

If Laura spins the spinner once, what is the probability that the spinner . . .



1. lands on a multiple of 3? $\frac{4}{8}$

   does not land on a multiple of 3? _____

2. lands on an even number? _____

   lands on an odd number? _____

3. lands on a multiple of 5? _____

   lands on a multiple of 10? _____

4. lands on a one-digit number? _____

   lands on a two-digit number? _____

5. lands on a three-digit number? _____

   lands on a number with a 1 in the ones place? _____

6. lands on a number less than 100? _____

   lands on a number greater than 5? _____

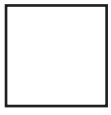
Test Prep

7. How many pairs of parallel lines does this figure have?

A. 0 **C.** 2

B. 1 **D.** 3

8. How many lines of symmetry can be drawn on this square?



A. 0 **C.** 2

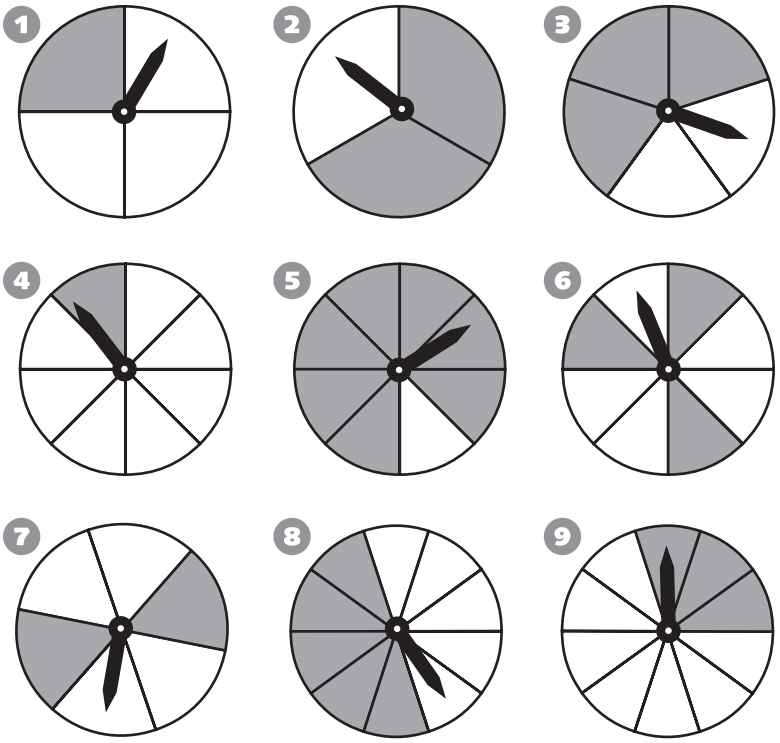
B. 1 **D.** 4

Name _____ Date _____

Practice
Lesson 4

Drawing From a Deck of Attribute Cards

Complete the table to match the spinners.



	Probability that the spinner will land on gray	Probability that the spinner will land on white
1	$\frac{1}{4}$	$\frac{3}{4}$
2		
3		
4		
5		
6		
7		
8		
9		

Which spinners are more likely to land on gray than on white? _____

Which spinners are more likely to land on white than on gray? _____

Which spinner is as likely to land on gray as it is to land on white? _____

Test Prep

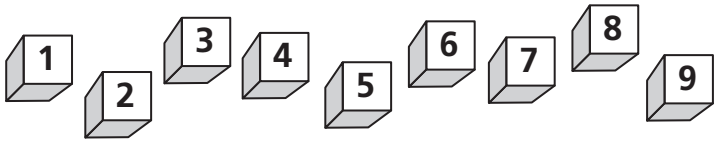
10

□ + △	8		5	15			27	13
□	5	9		8		7		
△	3	4	2		9			
□ × △	15		6		45	49	50	40

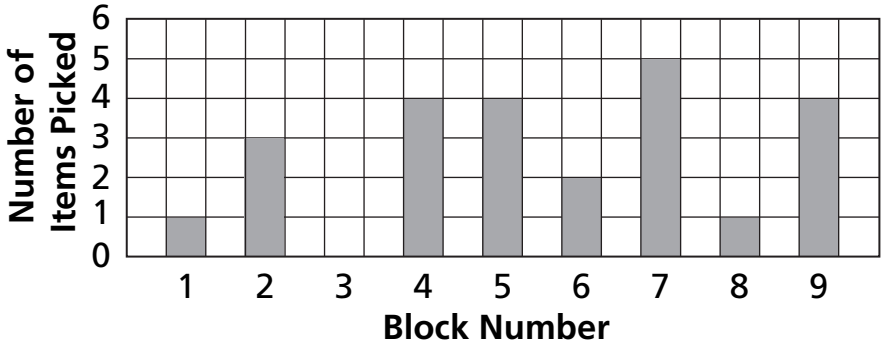
Name _____ Date _____

Practice
Lesson 5

Drawing Blocks



Each student in Mrs. Ferrelli's class drew a block at random. This graph shows the class's results.



1. Which block was picked most frequently? _____
2. Which block was picked least frequently? _____
3. How many times was block #6 picked? _____
4. Which 3 blocks were picked the same number of times? _____
5. How often was each of the 3 blocks from question 4 picked? _____

Test Prep

6. Stephen arranged the numbers 1, 3, 7, 5, and 9 to make a 5-digit number. He put the 3 in the hundreds place. What is the smallest number he could have written?

   A. 13,579 **C.** 31,759

   B. 15,379 **D.** 91,351

7. What number would be eighth in this pattern?

   5, 15, 30, 50, 75, . . .

   A. 180 **C.** 90

   B. 140 **D.** 85

Name _____ Date _____

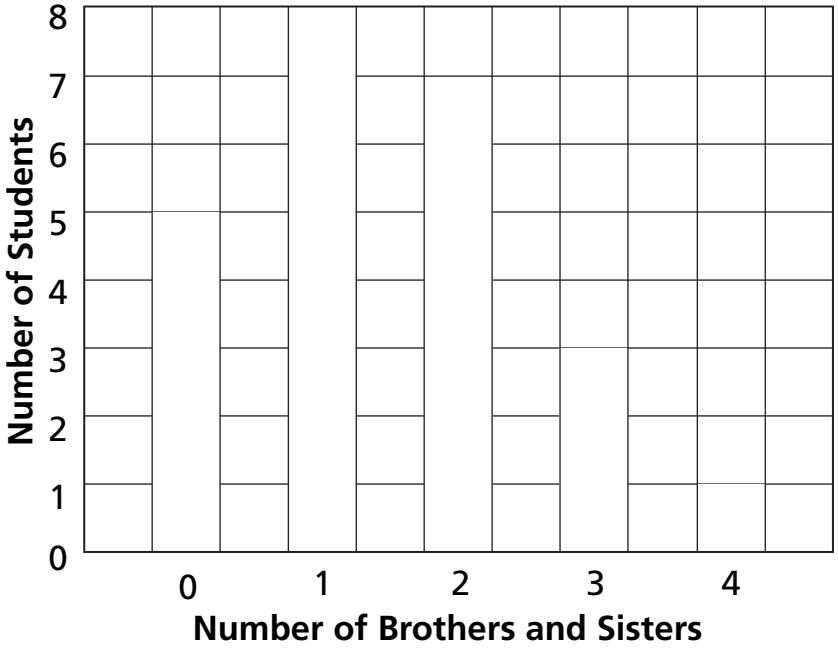
Practice
Lesson 6

Collecting and Analyzing Survey Data

Amal surveyed his class to find out how many brothers and sisters each student had. Here is his data.

0	3	2	2	1	1	3	0	2	0	1	2
1	1	4	0	0	1	1	2	3	1	2	2

1 Graph the data.



2 What is the greatest number of siblings any student has? _____

3 How many more students have 2 siblings than have 4 siblings? _____

Test Prep

4 How could you create a 6-color spinner with which you were equally likely to land on any color? Explain.

_____

_____

Name _____ Date _____

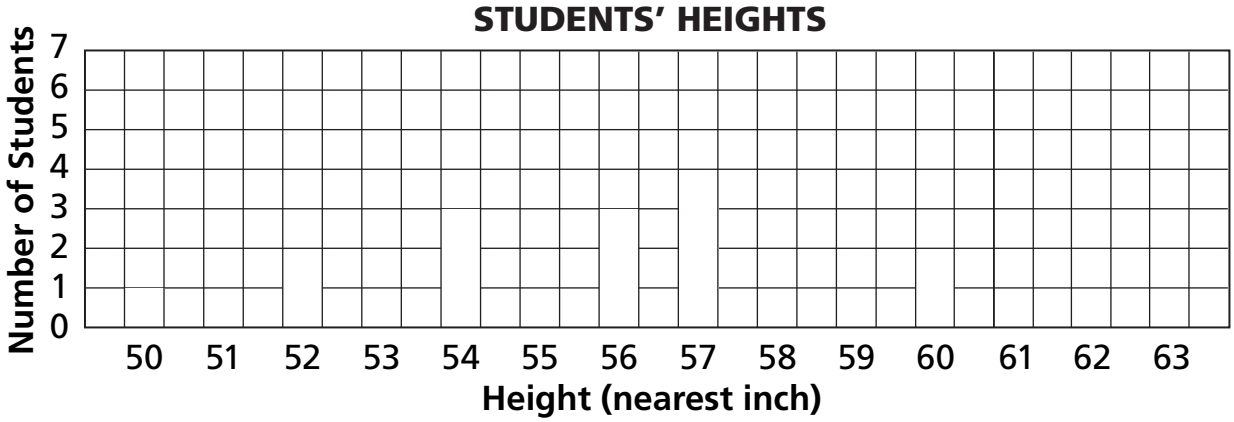
Practice
Lesson 7

Collecting Measurement Data

Here are the height measurements collected by a fourth-grade class.

52 inches	57 inches	54 inches	56 inches
54 inches	60 inches	57 inches	59 inches
56 inches	56 inches	57 inches	54 inches
60 inches	57 inches	50 inches	52 inches

1 Graph the data that the fourth-grade class collected.



Test Prep

2 Tyler bought 3 cartons of juice to share with his friends. Each juice carton costs 32¢. Tyler had 3 quarters and 3 dimes in his pocket. Which coins should he use to buy the juice? How much change will he receive? Explain.

_____

_____

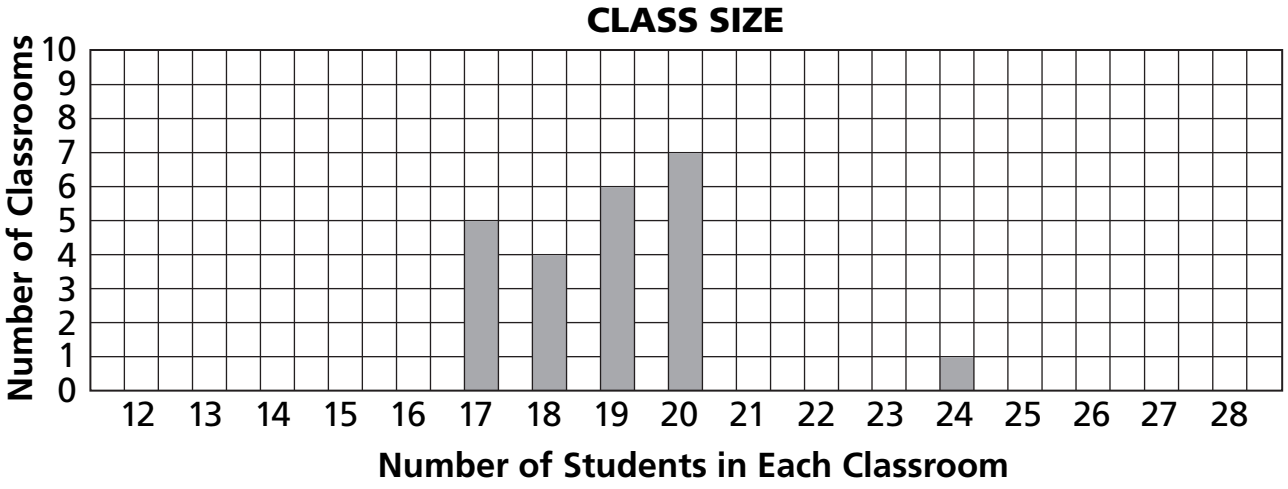
_____

Name _____ Date _____

Practice
Lesson 8

Analyzing Measurement Data

The graph describes the class sizes at Westlawn Elementary School.



1. How many classrooms are in the school? _____ classrooms

2. What is the greatest class size? _____ students

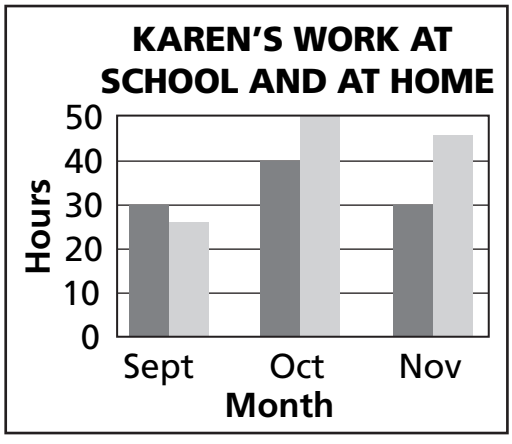
3. What is the most common class size? _____ students

If you visit one classroom at random . . .

4. What is the probability of visiting a class with 18 students? _____

5. What is the probability of visiting a class with 22 students? _____

Test Prep



6. How many more hours of school work did Karen do in October than in September?

A. 0 **C.** 10

B. 5 **D.** 25

7. In which month did Karen do more school work than chores?

_____