Name_____ Date_____

Chapter 1 Fair Game Review

Determine whether the number is prime or composite.

1. 4

2. 7

3. 13

4. 22

5. 19

6. 27

7. 30

8. 37

9. 41

10. 45

11. You have 33 marbles. Besides 1 group of 33 marbles, is it possible to divide the marbles into groups with the same number of marbles with no marbles left over?

12. You have 43 pencils. Besides 1 group of 43 pencils, is it possible to divide the pencils into groups with the same number of pencils with no pencils left over?

Name _____ Date _____

Add or subtract.

13. $1\dfrac{1}{5} + 1\dfrac{3}{5}$

14. $2\dfrac{3}{7} + 3\dfrac{2}{7}$

15. $4\dfrac{5}{9} + 6\dfrac{2}{9}$

16. $3\dfrac{6}{11} + 5\dfrac{4}{11}$

17. $4\dfrac{3}{4} - 2\dfrac{1}{4}$

18. $5\dfrac{3}{8} - 3\dfrac{7}{8}$

19. $2\dfrac{3}{10} - 1\dfrac{7}{10}$

20. $6\dfrac{5}{12} - 2\dfrac{11}{12}$

21. You are baking cookies. You have $7\dfrac{1}{4}$ cups of flour. You use $2\dfrac{3}{4}$ cups of flour. How much flour do you have left?

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Estimate the product or quotient.

1. 91×17

2. 57×29

3. $83 \div 18$

4. $204 \div 9$

5. $152 \div 31$

6. 13×78

7. 32×51

8. $651 \div 49$

9. There are 546 people attending a charity event. You are baking cookies to give away. Each batch makes 48 cookies. Estimate the number of batches you need to make so that each person gets one cookie.

Chapter 2 **Fair Game Review** (continued)

Find the product or quotient.

10. 351
        × 15

11. 187
        × 27

12. 9)333

13. 3)474

14. A bleacher row can seat 14 people. The bleachers are filled to capacity with 1330 people at a soccer game. How many rows of bleachers does the soccer field have?

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Write a sentence interpreting the expression.

1. $2 \times (126 + 2566)$

2. $4 \times (6425 + 25)$

3. $(65 - 23) + 3$

4. $(65{,}000 - 5169) + 58$

5. $(890 \div 2) \div 2$

6. $(65 \times 6) \div 3$

7. Write a real-life problem representing the expression below.

$$3 \times (20 + 6)$$

Chapter 3 **Fair Game Review** (continued)

Simplify the expression.

8. $4 - 8 \div 2$

9. $2^2 \bullet 3 - 3$

10. $16 - 32 \div 2^3$

11. $3\left(4^2 - 9\right)$

12. $12 + 16 \div 4 \bullet 2$
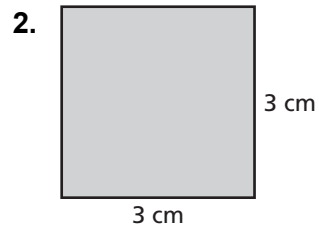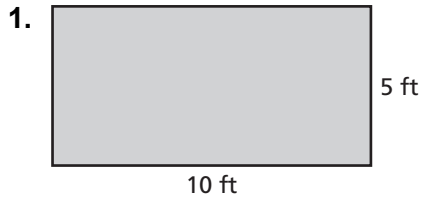
13. $24 - 18 \div 3 + 2$

14. $20 + 12 \div 2(7 - 4)$

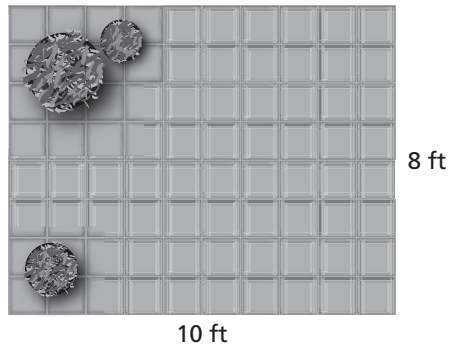**15.** $4\left(3^3 - 7\right) \div 10$

16. A group of 4 adults and 5 children is visiting an amusement park. Admission is $15 per adult and $9 per child. Find the total cost of admission for the group.

Name_____ Date _____

Fair Game Review
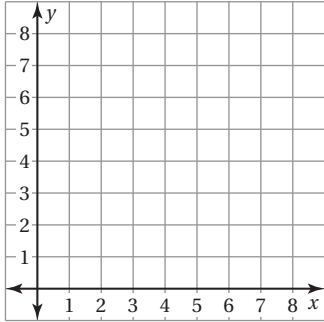
Find the area of the square or rectangle.

1.

5 ft

10 ft

2.

3 cm

3 cm

3.

4 in.

4 in.

4.

7 yd

2 yd
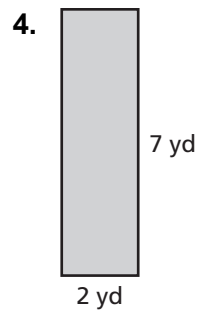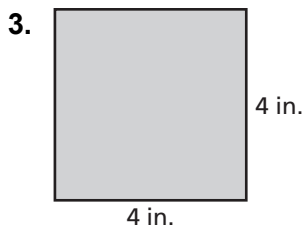
5. Find the area of the patio.

8 ft

10 ft

Name _____ Date _____

Plot the ordered pair in a coordinate plane.

6. $(2, 3)$

7. $(6, 5)$

8. $(1, 7)$

9. $(4, 4)$

10. $(5, 2)$

11. $(3, 1)$

Name_____ Date _____

Using the numbers from the table, find and state the rule in words.

1.

x	y
1	4
2	5
3	6
4	7

2.

x	y
2	6
4	12
6	18
8	24

3.

x	y
12	2
24	14
36	26
48	38

4.

x	y
4	2
5	$\dfrac{5}{2}$
6	3
7	$\dfrac{7}{2}$

5. The table shows the results of buying pretzels from a vending machine. The *x* column is the amount you put into the machine. The *y* column is the change you receive back from the machine. Complete the table and state the rule in words.

x	y
0.65	0
0.70	0.05
0.75	0.10
1.00	

Chapter
5
Fair Game Review (continued)

Evaluate the expression.

6. $\dfrac{5}{9} \bullet \dfrac{1}{3}$

7. $\dfrac{8}{15} \bullet \dfrac{3}{4}$

8. $\dfrac{1}{8} \bullet \dfrac{1}{9}$

9. $\dfrac{2}{3} \div \dfrac{9}{10}$

10. $\dfrac{7}{8} \div \dfrac{11}{16}$
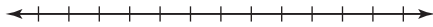
11. $\dfrac{3}{10} \div \dfrac{2}{5}$

12. You have 8 cups of flour. A recipe calls for $\dfrac{2}{3}$ cup of flour. Another recipe

calls for $\dfrac{1}{4}$ cup of flour. How much flour do you have left after making
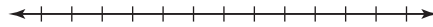
the recipes?

Chapter 6

Fair Game Review

Use a number line to order the numbers from least to greatest.
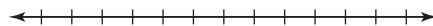
1. 0.2, 0.54, 0.61, 0.4

2. 0.3, 0.45, 0.11, 0.02
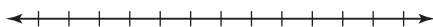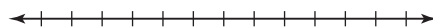
3. 1.7, 1.24, 1.02, 1.33
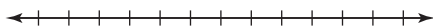
4. 1.01, 1.42, 1.06, 1.2
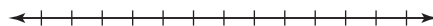
5. 0.98, 1.23, 0.87, 0.9

6. 1.4, 0.06, 1.23, 0.5

7. 0.003, 0.03, 0.033, 0.031

8. 0.02, 0.002, 0.2, 0.022

9. In your class, 0.58 of the students bring a piece of whole fruit for a snack and 0.36 of the students bring a snack pack of crackers. Which group of students brings in more food items for a snack?

Name _____ Date _____

Complete the number sentence with <, >, or =.

10. 5 ___ 8

11. 13 ___ 9

12. $0.3 \underline{\hspace{0.5cm}} \dfrac{3}{8}$

13. $0.68 \underline{\hspace{0.5cm}} \dfrac{17}{25}$

14. $3.6 \underline{\hspace{0.5cm}} \dfrac{12}{5}$

15. 0.06 ___ 0.062

Find three numbers that make the number sentence true.

16. $0.35 < \underline{\hspace{1cm}}$

17. $\dfrac{4}{9} \geq \underline{\hspace{1cm}}$

18. $2\dfrac{3}{5} \leq \underline{\hspace{1cm}}$

19. $\dfrac{1}{10} < \underline{\hspace{1cm}}$

20. $0.485 \geq \underline{\hspace{1cm}}$

21. $5.87 \leq \underline{\hspace{1cm}}$

22. During a trivia game, you answered 18 out of 25 questions correctly. Your friend answered 0.7 of the questions correctly. Write a number sentence for who had the greater number of correct answers.

Name_____ Date _____

Evaluate the expression when $x = 3$ and $y = 5$.

1. $2xy$

2. $\dfrac{6y}{x}$

3. $4y - x$

4. $y^2 - 7x + 2$

Evaluate the expression when $x = \dfrac{1}{4}$ and $y = 8$.

5. $3xy$

6. $16x + 5y$

7. $\dfrac{y}{2x}$

8. $2(10 - 24x) + y^2$

9. After m months, you paid $25 + 10m$ for your computer. How much did you pay after 6 months?

Chapter 7 **Fair Game Review** (continued)

Write the phrase as an expression.

10. three more than twice a number k

11. half of a number q plus eight

12. a number p decreased by six

13. nine times a number x

14. five divided by a number n

15. one plus the product of a number y and three

16. Each classmate contributes $2 for charity. Write an expression for the amount of money raised by your class.

17. You save half of the money from your paycheck plus an extra six dollars to buy a new bike. Write an expression for the amount of money you save from each paycheck.

Name_____ Date_____

Use a number line to order the numbers from least to greatest.

1. 1.5, 4.5, 5, 2.5, 1, 3

2. 6, 3.5, 4, 5.5, 7.5, 4.5

3. 5.25, 6, 3.5, 5, 6.25, 4.25

4. 4.75, 6.5, 7, 7.75, 5.5, 3

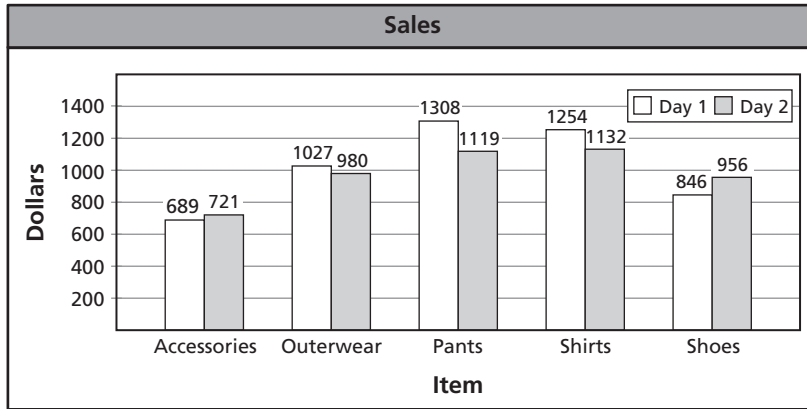**5.** 3.25, 5.75, 4.5, 3.75, 4.25, 6.5

6. 3.75, 1.5, 4.75, 1.25, 2.25, 3.5

Chapter 9

Fair Game Review (continued)

In Exercises 7–9, use the double bar graph that shows the sales of a clothing store over two days.
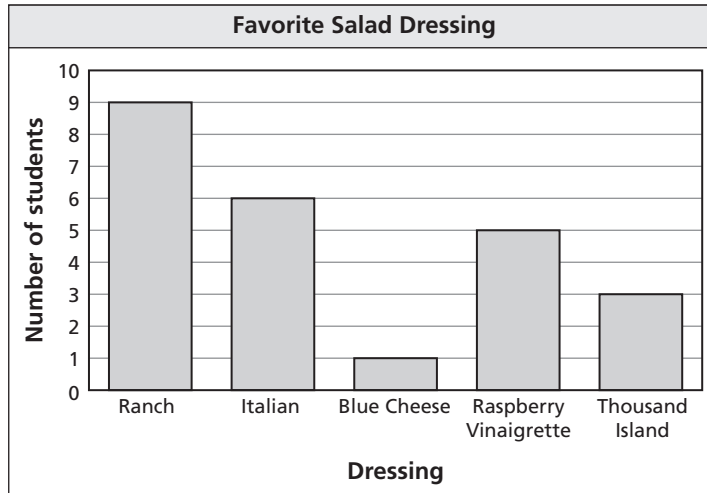

7. How much more did the store earn selling shirts on Day 1 than on Day 2?

8. Which item had the largest change in sales?

9. Which item had the highest sales total for the two days?

Chapter 10 **Fair Game Review**

The bar graph shows the favorite types of salad dressings of the students in a class.

Favorite Salad Dressing

Number of students

| 10 |
| 9 |
| 8 |
| 7 |
| 6 |
| 5 |
| 4 |
| 3 |
| 2 |
| 1 |
| 0 |

Ranch Italian Blue Cheese Raspberry Vinaigrette Thousand Island

Dressing

1. What salad dressing was chosen the most?

2. How many students said Raspberry Vinaigrette or Thousand Island is their favorite salad dressing?

3. How many students did *not* choose Italian as their favorite salad dressing?

4. How many students are in the class?

Fair Game Review (continued)

The circle graph shows the results from a class survey on favorite juice.
There are 30 students in the class.

Favorite Juice

Other
10%

Apple
30%
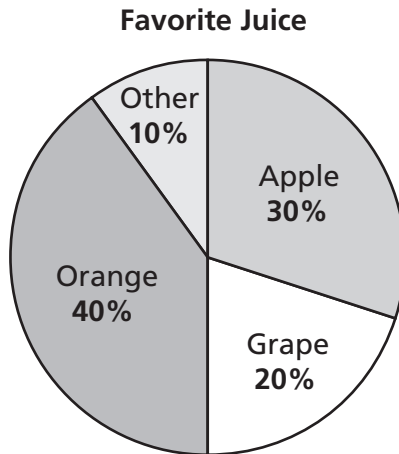
Orange
40%

Grape
20%

5. How many students said their favorite juice is apple?

6. How many students said their favorite juice is orange?

7. How many students said their favorite juice is grape?

Converting Fractions, Decimals, and Percents

	fraction	decimal	percent
a.	$\frac{15}{100}$	.15	
b.	$\frac{73}{100}$		73%
c.			39%
d.	$\frac{4}{100}$		
e.		.77	
f.			46%
g.	$\frac{50}{100}$		
h.		.06	
i.			80%
j.	$\frac{26}{100}$		