



Vocabulary

Choose the best term from the list to complete each sentence.

- 1. To solve the equation $\frac{1}{4}x = 24$, you can ___? both sides of the equation by 4. multiply
- 2. A(n) is used to name a part of a whole.
- 3. When two numbers have the same value, they are said equivalent
- 4. When writing 0.25 as a fraction, 25 is the ____? and 100 is the ___? numerator; denominator

divide denominator equivalent fraction multiply numerator

Complete these exercises to review skills you will need for

Simplify Fractions

Write each fraction in simplest form.

5.
$$\frac{6}{10}$$
 $\frac{3}{5}$

6.
$$\frac{9}{12}$$
 $\frac{3}{4}$

7.
$$\frac{8}{6}$$
 1 $\frac{1}{3}$ or $\frac{4}{3}$

Write Equivalent Fractions

Write three equivalent fractions for each given fraction. Possible answers:

8.
$$\frac{4}{16}$$
 $\frac{1}{4}$, $\frac{2}{8}$, $\frac{3}{12}$

9.
$$\frac{5}{10}$$
 $\frac{1}{2}$, $\frac{10}{20}$, $\frac{25}{50}$

8.
$$\frac{4}{16}$$
 $\frac{1}{4}$, $\frac{2}{8}$, $\frac{3}{12}$ 9. $\frac{5}{10}$ $\frac{1}{2}$, $\frac{10}{20}$, $\frac{25}{50}$ 10. $\frac{5}{6}$ $\frac{10}{12}$, $\frac{15}{18}$, $\frac{20}{24}$

O Compare Fractions

Compare. Write >, <, or =.

11.
$$\frac{3}{10} \stackrel{\square}{\square} \frac{2}{5} < 12$$
. $1\frac{3}{4} \stackrel{\square}{\square} 1\frac{5}{7} > 13$. $\frac{5}{8} \stackrel{\square}{\square} \frac{1}{2} > 14$. $2\frac{11}{12} \stackrel{\square}{\square} \frac{35}{12} =$

14.
$$2\frac{11}{12} = \frac{35}{12} =$$

Write Fractions as Decimals

Write each fraction as a decimal.

15.
$$\frac{1}{2}$$
 0.5

16.
$$\frac{7}{20}$$
 0.35

17.
$$\frac{2}{25}$$
 0.08

16.
$$\frac{7}{20}$$
 0.35 17. $\frac{2}{25}$ 0.08 18. $\frac{3}{25}$ 0.12

Multiply Decimals

Multiply.

19. 0.42 · 10 4.2 20. 0.3 · 52 15.6 21. 20.5 : 0.25 23. 9.8 · 0.2 1.96 24. 0.8 · 7.4 5.92 25. 0.52 · 0.64

22. 6.75 · 0.40 2.7 26. 0.75 · 8.9 6.675

Are You Ready?

Organizer

Objective: Assess students' u standing of prerequisite skills.

Prerequisite Skills

Simplify Fractions **Write Equivalent Fractions Compare Fractions** Write Fractions as Decimals **Multiply Decimals**

Assessing Prior Knowledge INTERVENTION

Diagnose and Prescribe

Use this page to determine whe intervention is necessary or enric ment is appropriate.

Resources



Are You Ready? Intervention and **Enrichment Worksheets**



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ARE YOU READY?

Diagnose and Prescribe

~	ARE YOU READY? Intervention			
Prerequisite Skill	⊘ Worksheets	.e	Online	
Simplify Fractions	Skill 19	Activity 19		
Write Equivalent Fractions	Skill 24	Activity 24	Diagnose and	
⊘ Compare Fractions	Skill 25	Activity 25	Prescribe Online	
Write Fractions as Decimals	Skill 26	Activity 26		
Multiply Decimals	Skill 40	Activity 40		

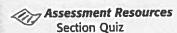






Objective: Assess students' mastery of concepts and skills in this section.

Resources



INTERVENTION ()



Ready to Go On?

Resources



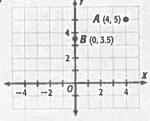
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8-9.



CHAPTER SECTION A

Jazz

Pop

Rock

3

14

10

Quiz for Lessons 1 Through 4

111 Ratios and Rates

Use the table to write each ratio.

- 1. classical CDs to rock CDs 4:10
- 2. country to total CDs 9:48
- 3. A package containing 6 pairs of socks costs \$6,89. A package containing 4 pairs of socks costs \$4.64. Which is the better deal? the 6-pair pack of socks

Classical

Country

Dance

(V) 2 Using Tables to Explore Equivalent Ratios and Rates

Use a table to find three equivalent ratios. Possible answers:

- 5. 15:6 5:2, 10:4, 20:8 6. 3 to 1016 to 202, 9 to 303, 12 to 404 7. The table shows the wait time
- for different groups at a restaurant. Predict how long a group of 8 will wait. 24 min

Number in Group	1	2	5	7	10
Wait Time (min)	3	6	15	21	30

Types of CDs in Mark's Music Collection

4

9

8

(V) 3 Ordered Pairs

Graph and label each point on a coordinate grid.

8. A (4, 5)

9. $B\left(0,3\frac{1}{2}\right)$

(V) 4 Proportions

Find the missing value in each proportion.

10.
$$\frac{1}{4} = \frac{n}{12}$$
 $n = 3$ 11. $\frac{3}{n} = \frac{15}{25}$ $n = 5$

10.
$$\frac{1}{4} = \frac{n}{12}$$
 $n = 3$ 11. $\frac{3}{n} = \frac{15}{25}$ $n = 5$ 12. $\frac{n}{4} = \frac{18}{6}$ $n = 12$ 13. $\frac{10}{4} = \frac{5}{n}$ $n = 2$

READY TO GO ON?

Diagnose and Prescribe

~	READY	то Go On? Inter	vention
Ready to Go On?	⊘ Worksheets	6	Online
⊘ Lesson t	1 Intervention	Activity 1	
⊘ Lesson 2	2 Intervention	Activity 2	Diagnose and Prescribe Online
⊘ Lesson 3	3 Intervention	Activity 3	
⊘ Lesson 4	4 Intervention	Activity 4	



READY TO GO ON? **Enrichment Worksheets**





Objective: Assess students' mastery of concepts and skills in this section.

Resources

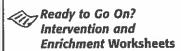
Assessment Resources Section Quiz

INTERVENTION 4 1



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Quiz for Lessons 5 Through 8



Write each percent as a fraction in simplest form.

2. 15%

3. 75%

Write each percent as a decimal.

4. 34% **0.34**

5. 77% 0.77

6.6% 0.06

7. About 71% of Earth's surface is covered with water. Write 71% as a decimal. 0.71

(V) 6 Percents, Decimals, and Fractions

Write each fraction as a percent.

45%

66.6%

10. $\frac{21}{50}$ 42%

Write each decimal as a percent.

11. 0.28 **28**%

13. 0.02 **2**%

14. Mike's baseball team won $\frac{17}{20}$ of its games. What percent of the games did Mike's baseball team win? "85%

Percent of a Number

Find the percent of each number.

15. 25% of 84 21

16. 52% of 300 156 17. 0.5% of 40 0.2 18. 160% of 450 720

19. 41% of 122 50.02

20. 178% of 35 62.3 21. 29% of 88 25.52 22. 80% of 176 140.8

23. Students get a 15% discount off the original prices at the Everything Fluorescent store during its back-to-school sale. Find the amount of discount on fluorescent notebooks originally priced at \$7.99. \$1.20

Solving Percent Problems

Solve. Round to the nearest tenth, if necessary.

24. 14 is 44% of what number? 31.8

25, 22 is what percent of 900? 2.4%

26. 99 is what percent of 396? 25%

27. 75 is 24% of what number? 312.5

28. The sales tax on a \$105 digital camera is \$7.15. What is the sales tax rate? 6.8%

READY TO GO ON?

Diagnose and Prescribe

Ready to Go On? Intervention State Lesson 5	READ	то Go On? Inter	vention
	Worksheets 5 Intervention	Online	
		Activity 5	
🗹 Lesson 6	6 Intervention	Activity 6	Diagnose and
⊘ Lesson 7	7 Intervention	Activity 7	Prescribe Online
⊘ Lesson 8	8 Intervention	Activity 8	



READY TO GO ON? Enrichment **Worksheets**



Use the table to write each ratio.

- 1. three equivalent ratios to compare dramas to documentaries 6:2, 12:4, 3:1
- 2. documentaries to total videos 2:26
- 3. music videos to exercise videos 3:3
- 4. Which is a better deal-5 videos for \$29.50 or 3 videos for \$17.25? 3 videos for \$17.25

Types of Videos in Richard's Collection			
Comedy	5	Cartoon	7
Drama	6	Exercise	_3
Music	3	Documentary	2

Find the value of n in each proportion.

5.
$$\frac{5}{6} = \frac{n}{24}$$
 $n = 20$

6.
$$\frac{8}{n} = \frac{12}{2}$$
 $n = 2$

7.
$$\frac{n}{10} = \frac{3}{6}$$
 $\pi = 5$

5.
$$\frac{5}{6} = \frac{n}{24}$$
 $n = 20$ 6. $\frac{8}{n} = \frac{12}{3}$ $n = 2$ 7. $\frac{n}{10} = \frac{3}{6}$ $n = 5$ 8. $\frac{3}{9} = \frac{4}{n}$ $n = 12$

9.	The table shows the time it takes Jenny to
	swim laps. Predict how long it will take her
	to swim 14 laps. 10.5 min

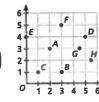
Number of Laps	4	8	12	16
Time (min)	3	6	9	12

Name the ordered pair for each point on the grid.

12.
$$C(1, 1)$$

16. $G(4\frac{1}{2}, 3)$

17.
$$H\left(5\frac{1}{2},2\right)$$



Graph and label each point on a coordinate grid.

19.
$$M(\frac{1}{2}, 6)$$

21.
$$S(3\frac{1}{2},2)$$

Write each percent as a fraction in simplest form and as a decimal.

22.
$$66\%$$
 $\frac{33}{50}$, 0.66 23. 90% $\frac{9}{10}$, 0.9

24. 5\%
$$\frac{1}{20}$$
, 0.05

25.
$$18\% = \frac{9}{50}$$
, 0.18

Write each decimal or fraction as a percent.

29.
$$\frac{1}{9}$$
 12.5%

Find the percent of each number.

Solve.

- 33. 36 is what percent of 150? 24%
- 34. 51 is what percent of 340? 15%
- 35. 36 is 40% of what number? 90
- 36. Hampton Middle School is expecting 376 seventh-graders next year. This is 40% of the expected school enrollment. How many students are expected to enroll in the school next year? 940 students

Chapter Test



Objective: Assess students' mastery of concepts and skills the chapter.



Resources



Chapter Test

Assessment Resources

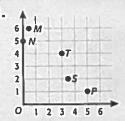
Chapter Tests

- Free Response (Levels A, B, C)
- Multiple Choice (Levels A, B, C)
- Performance Assessmer

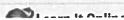
IDEA Works! Modified Chapter Test

Answers

18-21.











Vocabulary

Choose the best term from the list to complete each sentence.

- 1. A(n) ? is a quadrilateral with opposite sides that are parallel and congruent. parallelogram
- Some customary units of length are ? and ?
 Some metric units of length are ? and ?
 Inches; leet; centimeters; meters
 A(n) ? is a quadrilateral with side lengths that are all
- congruent and four right angles. Square
- 4. A(n) ? is a polygon with six sides. hexagon

Complete these exercises to review skills you will need for

centimeters cube feet hexagon inches liters meters parallelogram square

trapezoid

(V) Add and Multiply Whole Numbers, Fractions, and Decimals

Find each sum or product.

7.
$$\frac{22}{7} \cdot 21$$
 66

8.
$$\frac{1}{2} \cdot 5 \cdot 4$$
 10

9. 3.2 · 5.6 17.92 10.
$$\frac{1}{2}$$
 · 10 · 3 15

11.
$$(2 \cdot 5) + (6 \cdot 8)$$
 58 12. $2(3.5) + 2(1.5)$ 10 13. $9(20 + 7)$ 243

Measure with Metric Units

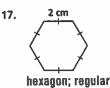
Use a centimeter ruler to measure each line to the nearest centimeter.



Name each polygon. Determine whether it appears to be regular or not regular.

16.







Are You

Organizer

Objective: Assess students' u standing of prerequisite skills.

Prerequisite Skills

Add and Multiply Whole Numbers, Fractions, and Decimals

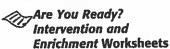
Measure with Metric Units Identify Polygons

Assessing Prior Knowledge INTERVENTION



Use this page to determine whet intervention is necessary or enric ment is appropriate.

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ARE YOU READY?

Diagnose and Prescribe

	Are	You READY? Interve	ention
Prerequisite Skill	uisite Skill		Online
Add and Multiply Whole Numbers, Fractions, and Decimals	Skills 34, 40, 42	Activities 34, 40, 42	Diagnose and
Measure with Metric Units	Skill 72	Activity 72	Prescribe Online
⊘ Identify Polygons	Skill 76	Activity 76	



ARE YOU READY? Enrichment

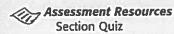
⋘ Worksheets





Objective: Assess students' mastery of concepts and skills in this section.

Resources



INTERVENTION 4



Ready to Go On?

Resources



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CHAPTER SECTION A



Quiz for Lessons 1 Through 5

(V) (1) Converting Customary Units

Use the table for Exercises 1 and 2.

1. Convert Ty's length to feet and inches. 1 ft $9\frac{1}{2}$ in.

2. How many ounces does Ty weigh? 152 oz

Baby Ty Rodriguez				
Birth Date	July 8, 2005, 11:50 p.m.			
Weight	9 lb 8 oz			
Length	21 <mark>1</mark> in.			

(V) [2] Converting Metric Units

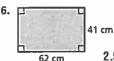
Convert.

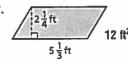
3. 8 m = 3 cm 800

4. $12 \text{ kg} = \boxed{\text{mg}} \text{ g} \text{ 12,000}$ **5.** $2,000 \text{ mL} = \boxed{\text{m}} \text{ L}$

3 Area of Rectangles and Parallelograms

Find the area of each figure.





Backyard 24 ft 120 ft 15 ft

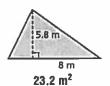
- 8. Mark is making a rectangular vegetable garden in his backyard. The rest of the backyard is covered with gravel. What is the area of the backyard that is covered with gravel? 8,640 ft²
- (V) (4) Area of Triangles and Trapezoids

Find the area of each figure.



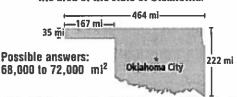


11.



- **5** Area of Composite Figures
 - 12. Find the area of the polygon.

13. Using the approximate dimensions, estimate the area of the state of Oklahoma.



READY TO GO ON?

Diagnose and Prescribe

V	READI	то Go On? Inter	vention
Ready to Go On? Intervention Stesson 1	₩orksheets	Ø	Online
	1 Intervention	Activity 1	
 € Lesson 2	2 Intervention	Activity 2	Diagnose and
⊘ Lesson 3	3 Intervention	Activity 3	Prescribe Online
 € Lesson 4	4 Intervention	Activity 4	
 € Lesson 5	5 Intervention	Activity 5	



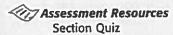
ARE YOU READY? Enrichment **Worksheets**





Objective: Assess students' mastery of concepts and skills in this section.

Resources



INTERVENTION 4



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CHAPTER 9 SECTION B



Quiz for Lessons 6 and 7

Volume of Prisms

Find the volume of each prism.

27 cm³ 3 cm

66 ft³

4. There are 16 cubic boxes of erasers in a case. What are all the possible dimensions for a case of erasers? $2 \times 8 \times 1$, $2 \times 2 \times 4$, $4 \times 4 \times 1$

Ready to Go On?

Surface Area

Find the surface area S of each figure. Use 3.14 for π , and round to the nearest hundredth.



37.5 cm²

8. Which cylinder has the greater surface area? The purple cylinder



-18 ft-

9. A company sells oats in a cylindrical container with dimensions as shown. A rectangular label gets glued around the lateral surface of the container. What is the area of the label? Round your answer to the nearest square inch. 107 in²





READY TO GO ON?

Diagnose and Prescribe

~	READY TO GO ON? Intervention			
Ready to Go On?			nline	
 ∠Lesson 6	6 Intervention	Activity 6	Diagnose and	
⊘ Lesson 7	7 Intervention	Activity 7	Prescribe Online	



READY TO GO ON? Enrichment **⋘ Worksheets**

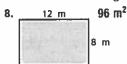


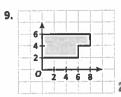


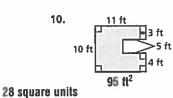
Convert.

- 1. 85 mm = em cm 8.5
- 2. 6 fl oz = 💹 c 0.75
- 4. 9 yd = in. 324
- 5. 15,840 ft = | mi 3
- 3. 3,000 km = 💹 m
- 6. $1.5 T = 10^{3,000,000}$ 3000
- 7. Baking One stick of butter is equivalent to $\frac{1}{2}$ cup of butter. A recipe calls for 2 tablespoons of butter. There are 16 tablespoons in a cup. How much of a stick of butter should you use? 1/4 stick

Find the area of each figure.



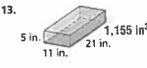


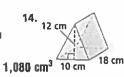


11. A patio is in the shape of a trapezoid. What is the area of the patio? 168 ft2 24 ft

Find the volume V of each three-dimensional figure.

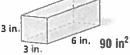


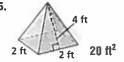




Find the surface area S of each three-dimensional figure.









18. A pizza box is just big enough to fit a large pizza, which has a diameter of 15 in. If the box is 1.5 in. tall, what is the surface area of the box? 540 in²

Chapter Test

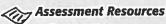


Organizer

Objective: Assess students' mastery of concepts and skills the chapter.



Resources



- **Chapter Tests**
- Free Response (Levels A, B, C)
- Multiple Choice (Levels A, B, C)
- Performance Assessmer

IDEA Works! Modified Chapter Test



Are You Ready?



O Vocabulary

Choose the best term from the list to complete each sentence.

When you ? a numerical expression, you find its value.
 ? are the set of numbers 0, 1, 2, 3, 4, whole numbers

3. A(n) ___ ? is an exact location in space. point

4. A(n) ___?__ is a mathematical statement that two quantities are equal. equation

evaluate exponents

equation

less than point

whole numbers

Complete these exercises to review skills you will need for this chapter.

Compare Whole Numbers

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

6.4 🗐 5 < 7.8 🔠 1 > 5. 9 💹 2 >

8.3 3 = **12.** 9,123 **9,001**

9. 412 214 10. 1,076 1,074 11. 502 520

Whole-Number Operations

Add, subtract, multiply, or divide.

13. 7 + 6 **13**

14. 15 - 8 7

15. 6 • 7 42

16. 25 ÷ 5 5

17. 129 + 30 159 18. 32 - 25 7 19. $119 \cdot 5$ 595 20. $156 \div 6$ 26

Solve One-Step Equations

Solve each equation.

21. 4t = 32 l = 8

22. b-4=12 b=16 23. 24=6r r=4

24. 3x = 72 x = 24

25. 8 = 4a a = 2

26. m + 3 = 63 m = 60

Graph Ordered Pairs

Graph each ordered pair.

27. (1, 3)

28. (0, 5)

29. (3, 2)

30. (4, 0)

31. (6, 4)

32. (2, 5)

33. (0, 1)

34. (1, 0)

Are You Ready?

Organizer

Objective: Assess students' u standing of prerequisite skills.

Prerequisite Skills

Compare Whole Numbers Whole-Number Operations **Solve One-Step Equations Graph Ordered Pairs**

Assessing Prior Knowledge INTERVENTION

Diagnose and Prescribe

Use this page to determine whe intervention is necessary or enriment is appropriate.

Resources



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Answers

27-34. See Additional Answers.

ARE YOU READY?

Diagnose and Prescribe

~	Are	You READY? Intervei	ntion
Prerequisite Skill	✓ Prerequisite Skill		Online
⊘ Compare Whole Numbers	Skill 4	Activity 4	
Whole-Number Operations	Skill 34	Activity 34	Diagnose and
Solve One-Step Equations	Skill 58	Activity 58	Prescribe Online
Graph Ordered Pairs	Skill 69	Activity 69	





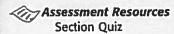
ARE YOU READY? Enrichment

₩orksheets



Objective: Assess students' mastery of concepts and skills in this section.

Resources



INTERVENTION 🐗 🛒



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CHAPTER SECTION A



Quiz for Lessons 1 Through 2



Integers and Absolute Value

Name a positive or negative number to represent each situation.

1. a gain of 10 yards +10

2. 45 feet below sea level -45

Write the opposite of each integer.

3.9 -9

4. -17 +17

5. 1 **-1**

6. -20 +20

Write the absolute value of each integer.

8. |-6| **6**

9. |-8| 8

10. |-9| 9

11. A patient's temperature was taken at 7:00, at 8:00, and again at 9:00. The patient's temperature increased by 2 degrees between 7:00 and 8:00, then decreased by 1 degree between 8:00 and 9:00. What integer could you write for an increase of 2 degrees? a decrease of 1 degree? +2; -1



Ready to Go On?

(V) [2] Comparing and Ordering Integers

Compare. Write < or >.

12. 9 -22 >

13. -7 4 <

14. -10 -19 >

Order the integers in each set from least to greatest. 15. 2, -7, 14 -7, 2, 14 -7, 2, 14 -7, 2, 14 -7, 2, 14 -7, 2, 14 -7, 2, 14 -7, 2, 16. 25, -9, 4, -21 -7, 17. 10, 0, -23, -17, 8

18. The elevation of Turpan Pendi in China is -154 meters. The elevation of the Qattara Depression in Egypt is -133 meters. Compare the two elevations using < or >. -154 < -133



READY TO GO ON?

Diagnose and Prescribe

~	REA	oy то Go On ? Interve	ntion
Ready to Go On? Intervention	Worksheets	₽	Online
⊘ Lesson 1	1 Intervention	Activity 1	Diagnose and
⊘ Lesson 2	2 Intervention	Activity 2	Prescribe Online



ARE YOU READY? **Enrichment**

Worksheets

Objective: Assess students' mastery of concepts and skills in this section.

Resources

Assessment Resources Section Quiz

INTERVENTION 4 ==



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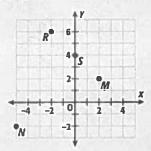


Ready to Go On? Online

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Answers

9-12.



13-14. See Additional Answers.

CHARTER SECTION B



Quiz for Lessons 3 Through 5

(V) 13 The Coordinate Plane

Use the coordinate plane for problems 1-8. Name the quadrant where each point is located.

2. Y III no quadrant

3. J

4. C

Give the coordinates of each point.

5. H (1, 2) 6. I (-2, -5) 7. W(4, -3)

Graph each point on a coordinate plane. 10. S(0, 4)

9. N(-5, -2)

11. R(-2, 6)

12. M(2, 2)

Ready to Go On?

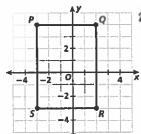
Polygons in the Coordinate Plane

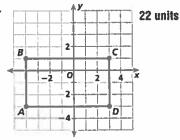
Graph the polygons with the given vertices.

13. triangle: $J(4, 2\frac{1}{2}), K(-3\frac{1}{2}, 1), L(-1, 5)$

14. rectangle: A(-1, 4), $B(4\frac{1}{2}, 4)$, $C(4\frac{1}{2}, 0)$, D(-1, 0)

Find the perimeter of each rectangle.





Transformations in the Coordinate Plane

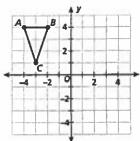
Use the coordinate plane for problems 17-19.

Perform the given transformation of triangle ABC. Give the coordinates of each vertex in the image.

17. translate 6 units down A'(-4, -2), B'(-2, -2), C'(-3, -5)

18. reflect across the y-axis A'(4, 4), B'(2, 4), C'(3, 1)

19. rotate 90° counterclockwise about point B A'(-2, 2), B'(-2, 4), C'(1, 3)



ARE YOU READY?

Diagnose and Prescribe

~	READ	γ το Go On? Inter	vention
Ready to Go On?	⊘ Worksheets	Œ	Online
⊘ Lesson 3	3 Intervention	Activity 3	
⊘ Lesson 4	4 Intervention	Activity 4	Diagnose and Prescribe Online
 ✓ Lesson 5	5 Intervention	Activity 5	



ARE YOU READY? **Enrichment**

⋘ Worksheets



Chapter Test



Name a positive or negative number to represent each situation.

- 1. 30° below zero -30
- 2. a bank deposit of \$75 +75
- 3. a loss of 5 yards -5

Write the absolute value of each integer.

- 4. |99| 99
- 5. |-115| 115
- 6. |-50| 50
- 7. |522| 522

Compare. Write < or >.

- 8. -4 1 4
- 9. 2 1 -9 >
- 10. -10 8 <
- 11. -2 | -12 >

Order each set of integers from least to greatest.

- 12. 21, -19, 34 -19, 21, 34
- 13. -16, -2, 13, 46 -16, -2, 13, 46
- 14. -10, 0, 25, -7, 18 -10, -7, 0, 18, 25

Graph each point on a coordinate plane.

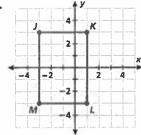
- **15.** A(2, 3)
- **16.** B(3, -2)
- 17. C(-1,3)
- 18. $D(-1, 2\frac{1}{2})$
- **19.** *E*(0, 1)

Chapter Test

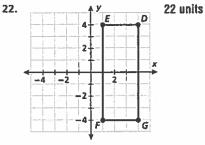
20. Graph the rectangle with vertices F(-3, 4), G(3, 4), H(3, -1), and J(-3, -1).

Find the perimeter of each rectangle.

21

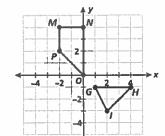


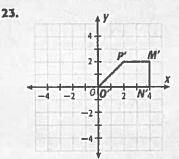
20 units



Perform the given transformation of each figure. Give the coordinates for each vertex of the image.

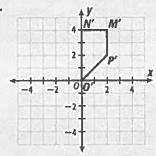
- 23. rotate figure MNOP 90° clockwise about the origin.
- 24. translate figure GHI 4 units up
- 25. reflect figure MNOP across the y-axis
- **26.** rotate figure *GHI* 180* counterclockwise about point *I*





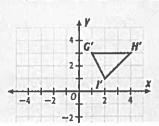
M'(4, 2), N'(4, 0), O'(0, 0), P'(2, 2)

25.



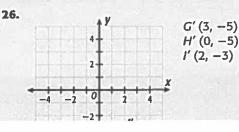
M'(2, 4), N'(0, 4), O'(0, 0), P'(2, 2)

24.



G'(1, 3)

H' (4, 3) I' (2, 1)



Chapter Test

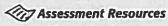
Organizer

Objective: Assess students' mastery of concepts and skills ithe chapter.



Online Edition

Resources



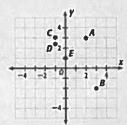
Chapter Tests

- Free Response (Levels A, B, C)
- Multiple Choice (Levels A, B, C)
- Performance Assessmer

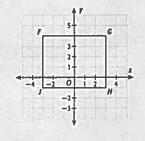
IDEA Works! Modified Chapter Test

Answers

15-19.



20.



Di Is Auttur

Are You Ready?



(V) Vocabulary

Choose the best term from the list to complete each sentence.

- 1. ___?__ operations undo each other. inverse
- 2. A(n) ___? is a mathematical statement that two quantities are equivalent. equation
- 3. A(n) ? is a ratio that compares two quantities measured in different units. rate
- 4. A(n) ___? of numbers is used to locate a point on a coordinate plane. ordered pair

equation ordered pair

expression

rate

inverse

Complete these exercises to review skills you will need for this chapter.

Words for Operations

Write the operation and algebraic expression for each word expression.

- addition; g + 28
- 5. the product of 3 and t multiplication; 3t 8. 28 more than g 9. 101 times k 9. multiplication; 101k
- 7. the quotient of d and 17 division: $d \div 17$ or $\frac{d}{17}$ 10. 43 minus x

subtraction: 43 - x

Inverse Operations

Use the inverse operation to solve each equation.

11.
$$x + 12 = 31$$
 12. $x = 19$

14.
$$t - 14 = 33$$
 $t = 47$

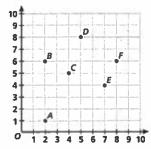
18.
$$15 = 3n$$
 $5 = n$

Graph Ordered Pairs

Use the coordinate plane. Write the ordered pair for each point.

- 19. A (2, 1)
- 20. B (2, 6)
- 21. C (4, 5)

- 22. D (5, 8)
- 23. E (7, 4)
- 24. F (8, 6)



Organizer

Objective: Assess students' u standing of prerequisite skills.

Prerequisite Skills

Words for Operations Inverse Operations Graph Ordered Pairs

Assessing Prior Knowledge INTERVENTION -



Use this page to determine whe intervention is necessary or enriment is appropriate.

Resources



Are You Ready? Intervention and **Enrichment Worksheets**



Name Are You Ready? Online

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ARE YOU READY?

Diagnose and Prescribe

•	ARE	ARE YOU READY? Intervention				
Prerequisite Skill	⊘ Worksheets	6	Online			
W ords for Operations	Skill 53	Activity 53				
⊘ Inverse Operations	Skill 57	Activity 57	Diagnose and Prescribe Online			
♂ Graph Ordered Pairs	Skill 69	Activity 69				





ARE YOU READY? Enrichment

Objective: Assess students' mastery of concepts and skills in this section.

Resources



Assessment Resources Section Quiz

INTERVENTION 4



Ready to Go On?

Resources



Ready to Go On? Intervention and **Enrichment Worksheets**



Ready to Go On? Online

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Answers

10-12, 17-22. See Additional Answers.



5

23

18

6

28

8

38

Quiz for Lessons 1 Through 4

1 Tables and Functions

Write an equation for a function that gives the values in each table. Use the equation to find the value of y for each indicated value of x.

1.	x	2	3	4	5	8
	y	7	9	11	13	
	y =	2x +	3; 19			

y = 5x - 2; 3For Problems 3-5, write an equation for the function. Tell what each variable you use

- p = 3c 5; p = plates, c = cups3. The number of plates is 5 less than 3 times the number of cups.
- 4. The time Rodney spends running is 10 minutes more than twice the time he
- spends stretching.

 r = 2s + 10; r = time spent running,
 s = time spent stretching

 The height of a triangle is twice the length of its base.

 h = 2b; h = height, b = base

(V) [2] Graphing Functions

Use the graph of the linear function at right to find the value of y for each given value of x.

6.
$$x = 3 - 5$$

7.
$$x = 0$$
 1

8.
$$x = -1$$
 3

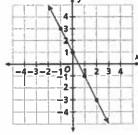
9.
$$x = -2$$
 5

Graph the function described by each equation.

10.
$$y = x + 5$$

11.
$$y = 3x + 2$$

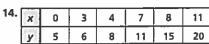
12.
$$y = -2x$$



(V) 3 Slope and Rate of Change

Tell whether the rates of change are constant or variable.

13.	x	0	1	2	3	4	5
	У	4	5	6	7	8	9



variable

constant (V) 4 Inequalities

Write an inequality for each situation. 15. Gray has at least 25 blue T-shirts.

16. Capacity: not more than 50 people. $r \leq 50$

Graph each inequality.

17.
$$b > -1$$

 $g \ge 25$

19.
$$-3 ≥ x$$

20. 5 ≥
$$p$$
 and $p > -1$

21.
$$-8 > g \text{ or } g \ge -1$$

22.
$$-4 \le x < 0$$

READY TO GO ON?

Diagnose and Prescribe

~	READ	y το Go On? Inter	vention
Ready to Go On? Intervention	₩orksheets	đ	O nline
⊘ Lesson t	1 Intervention	Activity 1	
S Lesson 2	2 Intervention	Activity 2	Diagnose and
▼ Lesson 3	3 Intervention	Activity 3	Prescribe Online
⊘ Lesson 4	4 Intervention	Activity 4	



ARE YOU READY? **Enrichment Worksheets**



Write an equation for a function that gives the values in each table. Use the equation to find the value of y for each indicated value of x.

1.	x	2	3	4	5	6	7
	У		8	11	14	17	20

v 8 10 12 14 16	
y 8 10 12 14 16	Œ

y = 3x - 1; 5

y = 2x + 6; 24

Write an equation for the function. Tell what each variable you use represents.

- 3. The number of buttons on the jacket is 4 more than the number of zippers.
- 4. The length of a parallelogram is 2 in. more than twice the height.

= 2h + 2; = length, h = height

Use the given x-values to write solutions of each equation as ordered pairs. Then graph the function described by each equation.

5.
$$y = 5x - 3$$
 for $x = 1, 2, 3, 4$ (1, 2), (2, 7), (3, 12), (4, 17)

6. y = 2x - 3 for x = 0, 1, 2, 3(0, -3), (1, -1), (2, 1), (3, 3)

Determine whether the rates of change are constant or variable.

7.	х	5	7	9	11
	у	1	9	17	25

constant

8.	х	3	8	11	14
	У	-3	-1	-5	5

9. Emily is participating in a project for P.E. Every day, she walks a certain distance and keeps track of the total distance she has walked for the entire project. The table shows her data for the first five days.

Day	1	2	3	4	5
Total Distance (mi)	2	4	6	8	10

- a. Determine whether the rates of change are constant or variable. constant
- b. Graph the data and connect the points with line segments. If the rate of change is constant, find and interpret the slope. Slope = 2; Emily walked 2 ml each day.

Write an inequality for each situation.

- 10. You must be more than 4 ft tall to go on the ride. height > 4 ft
- 11. You cannot go more than 65 miles per hour on Route 18. speed ≤ 65 mi/h

Graph each inequality.

12.
$$a < -2$$

13.
$$-5 < d$$
 and $d \le 2$ 14. $c > -1$ or $c < -5$

variable

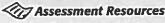
Chapter Test

Organizer

Objective: Assess students' mastery of concepts and skills the chapter.



Resources



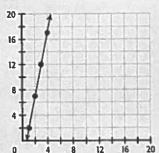
Chapter Tests

- Free Response (Levels A, B, C)
- Multiple Choice (Levels A, B, C)
- Performance Assessmer

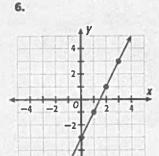
IDEA Works! Modified Chapter Test

Answers

Chapter Test



A to Audin a



9b.

