Class:

Chapter 2 Review

Multiple Choice

Identify the choice that best completes the statement or answers the question.

The polygons are similar. Find x.



distance and in the same direction.							
a.	congruent figures	d.	transformation				
b.	corresponding angles	e.	image				
c.	corresponding sides	f.	translation				

1

Name: _____

	7.	A changes a figure into another figure.		
<u>_</u>		a. congruent figures	d.	transformation
		b. corresponding angles	e.	image
		c. corresponding sides	f.	translation
	8. The new figure formed by a transformation			
	0.	The new figure formed by a transformation a. congruent figures	d.	transformation
		b. corresponding angles	е.	image
		c. corresponding sides	f.	translation
	0		-	
9. A creates a mirror image of the original figure				
		a. reflection	d.	transformation
		b. line of reflectionc. rotation	e. f.	image
		c. rotation	1.	translation
10. A line that a figure is reflected in to create a mi			irror	image of the original figure
		a. reflection	d.	transformation
		b. line of reflection	e.	image
		c. rotation	f.	translation
	11.	A point about which a figure is rotated.		
		a. center of rotation	d.	dilation
		b. angle of rotation	e.	center of dilation
		c. similar figures	f.	scale factor
<u> </u>	12.	The number of degrees a figure rotates.		
		a. center of rotation	d.	dilation
		b. angle of rotation	e. f.	center of dilation
		c. similar figures	ł.	scale factor
13. A transformation in which a figure is rotated about a point called the center of rotation		a point called the center of rotation.		
		a. reflection	d.	transformation
		b. line of reflection	e.	image
		c. rotation	f.	translation
	14. Figures that have the same shape but not necessarily the same size.			
		a. center of rotation	d.	congruent figures
		b. angle of rotation	e.	center of dilation
		c. similar figures	f.	scale factor
15. The ratio of the side lengths of the image of a dilation to the corresponding side lengths of the origi				on to the corresponding side lengths of the original figure
	15.	a. center of rotation	d.	dilation
		b. angle of rotation	е.	center of dilation
		c. similar figures	с. f.	scale factor
		-		
·	16.	A transformation in which a figure is made larger or smaller with respect to a fixed point called the center of dilation.		
		a. center of rotation	d.	dilation
		b. angle of rotation	e.	center of dilation
		c. similar figures	f.	scale factor

- 17. A point with respect to which a figure is dilated.
 - a. center of rotation
 - b. angle of rotation
 - c. similar figures

- d. dilation
- e. center of dilation
- f. scale factor

Find the coordinates of the image after the transformation.

18. Rotate 270° counterclockwise about the origin.



- a. V'(4, 6), W'(6, 1), X'(3, 1), Y'(1, 6)
- b. V'(6, -4), W'(1, -6), X'(1, -3), Y'(6, -1)
- c. V'(-6, 4), W'(-1, 6), X'(-1, 3), Y'(-6, 1)
- d. V'(6, 4), W'(1, 6), X'(1, 3), Y'(6, 1)

A figure lies entirely in Quadrant II. In which quadrant will the figure lie after the given clockwise rotation about the origin?

19.	180°
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20.

a. Quadrant III	с.	Quadrant I
b. Quadrant II	d.	Quadrant IV
		-
360°		
a. Quadrant III	с.	Quadrant IV
b. Quadrant I	d.	Quadrant II
o. Quadrant		(

Name:

The two triangles are similar. Find the measure of the angle.



origin using a scale factor of
$$\frac{1}{2}$$
.

$$\begin{aligned} &A(-5,-5), B(-5,0), C(1,0), D(1,-5) \\ &a. \quad A''(-4.5,5.5), B''(-4.5,5.5), C''(1.5,0.5), D''(1.5,5.5) \\ &b. \quad A''(5.5,-4.5), B''(5.5,0.5), C''(-0.5,0.5), D''(-0.5,-4.5) \\ &c. \quad A''(-2.5,2.5), B''(-2.5,0), C''(0.5,0), D''(0.5,2.5) \\ &d. \quad A''(2.5,-2.5), B''(2.5,0), C''(-0.5,0), D''(-0.5,-2.5) \end{aligned}$$

Numeric Response

- 1. The ratio of the corresponding side lengths of two similar MP3 players is 4 : 3. The area of the larger MP3 player is 8 square inches. What is the area of the smaller MP3 player?
- 2. The ratio of the side length of Square A to the side length of Square B is 3 : 5. The perimeter of Square B is 60 feet. What is the area of Square A?
- 3. The ratio of the side length of Square A to the side length of Square B is 11:9. The side length of Square A is 11 centimeters. What is the perimeter of Square B?
- 4. The ratio of the corresponding side lengths of two similar city blocks is 17:11. The perimeter of the larger block is 0.85 mile. What is the perimeter of the smaller block?

Chapter 2 Review Answer Section

MULTIPLE CHOICE

- 1. D
- 2. A
- 3. A
- 4. B
- 5. C
- 6. F
- 7. D
- 8. E
- 9. A
- 10. B
- 11. A
- 12. B 13. C
- 13. C
- 14. C
- 15. F
- 16. D
- 17. E
- 18. C
- 19. D
- 20. D
- 21. D
- 22. C

NUMERIC RESPONSE

- 1. 4.5 in^2
- 2. 81 ft^2
- 3. 36 cm
- 4. 0.55 mile