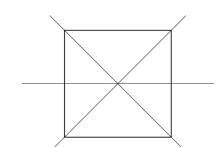
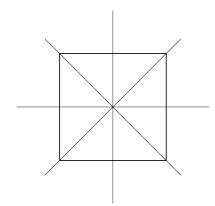
Practice Quiz 2

	Α.	A ray
	В.	A line
	C.	A point
	D.	A plane
2.	Wh	at is the rotational symmetry for a rectangle?
	Α.	0°
	В.	90°
	C.	180°
	D.	270°
3.	Se	elect the square with the correct lines of symmetry.
	Α.	
	В.	

1. What is the intersection of two walls in a room?



C.



D.

4. Three vertices of a rectangle are (-6.5), (-6.0), (12, 5). What is the fourth coordinate?

- A. (12, 0)
- B. (0, 12)
- C. (-12, 0)
- D. (0, -12)

5. A cube has a surface area of 54 square feet. What is the side length in feet?

- A. 2
- B. 3
- C. 4
- D. 5

6. A trapezoid has bases of 8 inches and 12 inches and a height of 6 inches. Find the area in square inches.

A. 18

	20	
	60	
	72	
7.	dime has a radius of 8.5 millimeters. Find the circumference in illimeters of the dime. Use 3.14 for π .	
	26. 6953. 38106. 76	
8.	alf of a circular garden with a radius of 11.5 feet needs weeding. Find the area in square feet that needs weeding. Round to the nearest hundred see 3.14 for π .	
	415. 27 519. 08 726. 73	
9.	circle has an area of 12 square feet. Find the diameter to the nearest enth of a foot. Use 3.14 for π . 1.0 2.0 3.0	
10	4.0 A square pyramid has a volume of 189 cubic feet and a height of 7 feet.	
	ind the length in feet of a side of the base.	

	Α.	3
	В.	9
	С.	12
	D.	18
11.		rectangular pyramid has a length of 10 centimeters, a width of 11
	1n	ches, and a height of 12 inches. Find the volume in cubic inches.
	Α.	220
	В.	440
	С.	660
	D.	880
12.	. A	sphere has a volume of 972π cubic millimeters. Find the radius in
		llimeters.
	Α.	
	В.	9
	С.	27
	D.	81

Practice Quiz 2 – Answer Key

- 1. B. The correct solution is a line. The walls are two planes, and two planes intersect at a line. See Lesson: Congruence.
- 2. C. The correct solution is 180° . For a rectangle, there is rotational symmetry every 180° . See Lesson: Congruence.
- 3. D. The correct solution is the square with four lines of symmetry. There is a horizontal line, a vertical line, and two diagonals of symmetry that map the rectangle onto itself. See Lesson: Congruence.
- 4. A. The correct solution is (12, 0) because this point shows a rectangle with sides lengths of 5 units and 18 units. See Lesson: Similarity, Right Triangles, and Trigonometry.
- 5. B. The correct solution is 3. Substitute the values into the formula $54 = 6s^2$. Solve the equation by dividing both sides of the equation by 6 and applying the square root, $9 = s^2$; s = 3 feet. See Lesson: Similarity, Right Triangles, and Trigonometry.
- 6. C. The correct solution is 60. Substitute the values into the formula and simplify using the order of operations, $A = \frac{1}{2}h(b_1 + b_2) = \frac{1}{2}(6)(8 + 12) = \frac{1}{2}(6)(20) = 60$ square inches. See Lesson: Similarity, Right Triangles, and Trigonometry.
- 7. C. The correct solution is 53.38 because $C=2 \pi r \approx (2)3.14(8.5) \approx 53.38$ millimeters. See Lesson: Circles.
- 8. A. The correct solution is 207.64 because $A = \frac{1}{2}\pi r^2 \approx \frac{1}{2}(3.14)(11.5)^2 \approx \frac{1}{2}(3.14)(132.25) \approx 207.64$ square feet. See Lesson: Circles.
- 9. D. The correct solution is 4.0 because $A = \pi r^2; 12 = 3.14r^2; 3.82 = r^2; r \approx 2.0$. The diameter is twice the radius, or about 4.0 feet. See Lesson: Circles.

- 10. B. The correct solution is 9. Substitute the values into the formula, $189 = \frac{1}{3}s^2$ (7) and simplify the right side of the equation, $189 = \frac{7}{3}s^2$. Multiply both sides by the reciprocal and apply the square root, $81 = s^2$, s = 9 feet. See Lesson: Measurement and Dimension.
- 11. B. The correct solution is 440. Substitute the values into the formula and simplify using the order of operations, $V = \frac{1}{3}Bh = \frac{1}{3}lwh = \frac{1}{3}(10)(11)12 = 440$ cubic inches. See Lesson: Measurement and Dimension.
- 12. B. The correct solution is 9 millimeters. Substitute the values into the formula, $972 \pi = \frac{4}{3} \pi r^3$, then multiply by the reciprocal, $729 = r^3$, and apply the cube root, r = 9 millimeters. See Lesson: Measurement and Dimension.



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