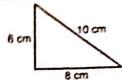
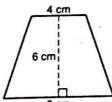
[CHAPTER] Chapter Test

Circle the best answer.

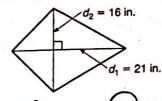
1. What is the area of the triangle?



- C 48 cm² D 80 cm²
- 2. A parallelogram has an 8-inch base. If the parallelogram has an area of 64 square inches, what is the height of the parallelogram?
 - A 4 in.
- C 16 in.
- **B** 8 in.
- D 56 in.
- 3. What is the area of a rhombus if one diagonal is 6 centimeters and the other diagonal is 8 centimeters?
 - A 7 cm²
- (C 24 cm²
- B 14 cm²
- D 48 cm²
- 4. What is the area of the trapezoid?



- A 6 cm²
- C 72 cm²
- D 192 cm²
- 5. What is the area of the kite?

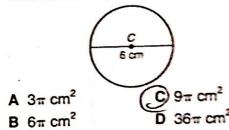


- A 18.5 in²
- 68 in²
- B 37 in2
- 336 in²

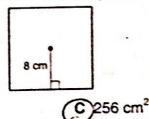
- The area of a square is 25 square inches. What is the perimeter of the square?
 - A 10 in.
- C 50 in.
- B 20 in.
- D 100 in.
- 7. What is the circumference of OP in terms of #?



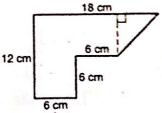
- A 4π cm
- C 16 m cm
- B 8 m cm
- D 64= cm
- 8. What is the area of ⊙C in terms of π?



9. What is the area of the square?



- A 64 cm² B 128 cm²
- 10. What is the area of the figure?



- A) 126 cm²
- C 180 cm²
- B 162 cm²
- D 216 cm²

CHAPTER Chapter Test

Form A continued

11. Which is the best estimate for the shaded area of the figure? The grid has squares with side lengths of 1 inch.

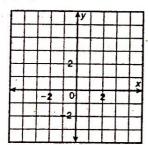


A 2 in² B)3 in²

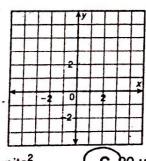
- C 4 in²
- D 5 in²

Use the grids for Exercises 12-14.

12. What is the perimeter of square DEFG if the coordinates of D and E are D(0, 0)and E(3, 0)?

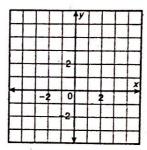


- A 9 units²
- C 12 units²
- B 9 units
- D 12 units
- 13. What is the area of the polygon with vertices W(-4, 2), X(1, 2), Y(1, -2),and Z(-4, -2)?

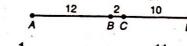


- A 18 units²
- C 20 units2
- B 18 units
- D 20 units

14. What is the area of $\triangle JKL$ if the coordinates of J, K, and L are J(0, 0), K(0, 3), and L(4, 0)?



- A 6 units²
- C 12 units²
- B 6 units
- D 12 units
- 15. If the radius of a circle is multiplied by 3, which is true?
 - The circumference is tripled.
 - B The area is tripled.
- 16. What should you do if you want to double the area of a rectangle?
- A Double either the length or the width but not both.
 - B Double both the length and the width.
- 17. A point is chosen randomly on \overline{AD} . What is the probability that the point is on \overline{BC} ?

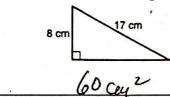


- 18. A bus is scheduled to arrive at a bus stop every 20 minutes, and it stays at the stop for 2 minutes. What is the probability that the bus will be at the stop when you arrive?
 - A 0.05

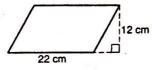
CHAPTER Chapter Test

Form B

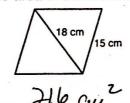
1. Find the area of the triangle.



2. Find the area of the parallelogram.



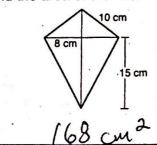
3. Find the area of the rhombus.



4. The area of the trapezoid is 34.5 square feet. Find the base.



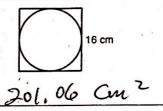
5. Find the area of the kite.



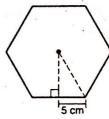
6. The perimeter of a rhombus is 40 inches. One diagonal is 12 inches. Find the area of the rhombus.

7. Find the radius of $\bigcirc P$ in which $C = 36\pi$ cm.

8. Given that the circle is inscribed in the square, find the area of the circle to the nearest hundredth.

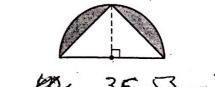


9. Find the area of the regular polygon to the nearest tenth.



9.8 cu

10. The figure is a semicircle with a radius of 8 inches. Find the area of the shaded part of the figure to the nearest hundredth.



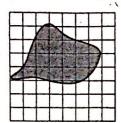
36.53 in

red virtually

CHAPTER Chapter Test

Form B continued

11. Estimate the area of the figure. The grid has squares with side lengths of 1 yard.



(6 yd2 + 18yd2

12. Find the perimeter of the polygon with vertices A(-5, 2), B(1, 5), C(3, 1), and D(-3, -2). If necessary, leave your answer in simplest radical form.

10 V5 2 22.36 units

13. Find the area of the polygon with vertices D(-1, 2), E(2, 2), F(2, -1), and G(-3, -1).

14. Find the area of the circle centered at the origin that passes through the point (-3, 5). Round your answer to the nearest tenth of a square unit.

 $7 \approx 5.83 \, \text{m}$ $A = 106.8 \, \text{m}^2$

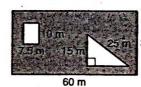
15. The diameter of a circle is increased by a factor of 3. Describe the effect on the area of the circle.

A2 = A1 * 9

16. A square sandbox has an area of 8 square feet. If you want to double the area, what size should you make the sides of the new sandbox?

A2 = A102 = 8-2 = 16 A2 = 16 = 52 S= 516 (451)

17. Find the probability that a point chosen randomly inside the 60-m-by-30-m rectangle will be inside either the small rectangle or the triangle.



= Prob_small rect

18. A stoplight is green for 28 seconds. yellow for 5 seconds, and red for 27 seconds. What is the probability that the light will NOT be green when you arrive? '

Prob not = 32 18 = 532