

Geometry
Assignment 1.2

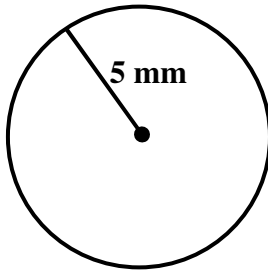
Name: _____

1. The distance from the center of the circle to its edge is called the _____.
2. The distance across a circle passing through the center is the _____.
3. The perimeter of a circle is more specifically called the _____.
4. The symbol π is called _____, which is approximately equal to (\approx) _____.
5. The formula for the circumference of a circle is _____.
6. The formula for the area of a circle is _____.

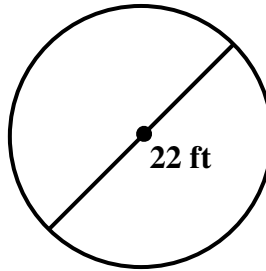
Find the circumference and area of the circle.
Leave answer in terms of π for #7 and #8.

Rounder answer to the nearest tenth.

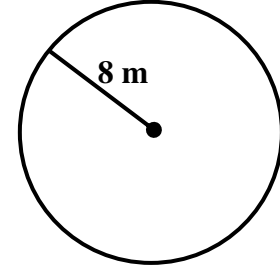
7.



8.

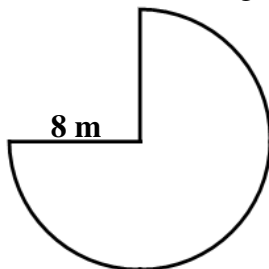


9.

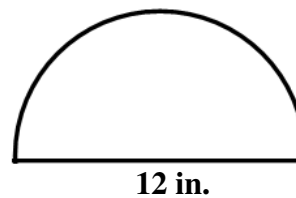


Find the area of the figure. Leave answer in terms of π .

10.



11.



12. The perimeter of a rectangle is 38 ft. and its length is 10 ft. Find the width.

13. The area of a rectangle is 63 in.^2 and its height is 7 in. What is the length of the base?

14. The area of a triangle is 48 m^2 and its base is 12 m. Find its height.

15. The area of a triangle is 18 ft^2 and its height is 9 ft. Find the base.

16. The circumference of a circle is 30π units. What is the area?

17. The area of a circle is $49\pi \text{ mi}^2$. Find its circumference.

18. The area of a rectangle is 54 square inches and its height is 9 inches. What is the perimeter of the rectangle?

19. The length of a rectangle is three more than twice the width. Given the perimeter is 36 ft, find the dimensions (width and length) of the rectangle.

Draw a segment with indicated length.

20. $1\frac{1}{2}$ in.

21. $\frac{3}{4}$ in.

22. $1\frac{1}{8}$ in.

23. $1\frac{3}{16}$ in.

24. 4 cm

25. 28 mm

Complete the conversion.

26. 48 in. = _____ ft

27. 9 yd = _____ ft

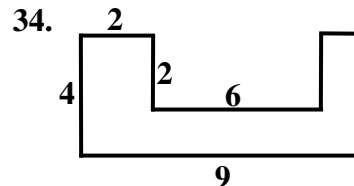
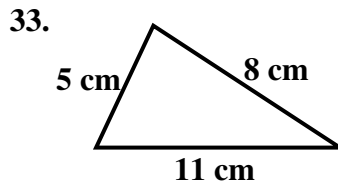
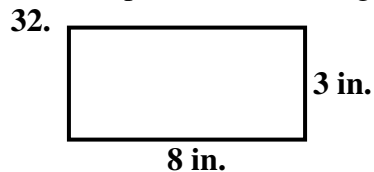
28. 7 cm = _____ mm

29. 76 in. = _____ ft

30. 280 cm = _____ m

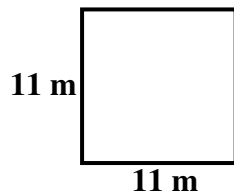
31. 2,000 mm = _____ m

Find the perimeter of the figure.

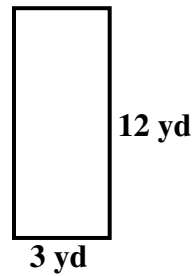


Find the area of the figure.

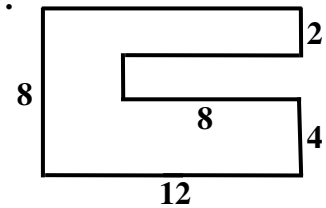
35.



36.

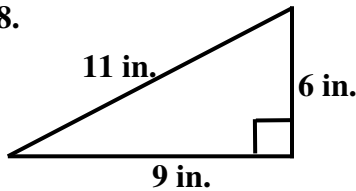


37.

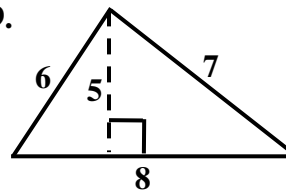


Find the area of the triangle.

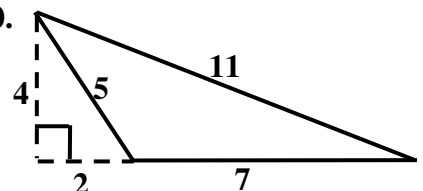
38.



39.

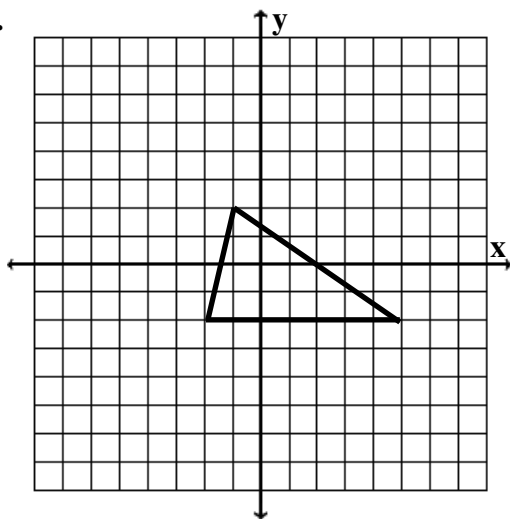


40.



Find the area of the figure on the coordinate plane.

41.



42. A sewing club is making a quilt consisting of 25 squares with each side of the square 20 centimeters. If the quilt has five rows and five columns, what is the perimeter of the quilt?

Answer Key:

- 1) radius 2) diameter 3) circumference 4) pi; 3.14 5) $C = 2\pi r$ 6) $A = \pi r^2$
 7) $C = 10\pi$ mm, $A = 25\pi$ mm² 8) $C = 22\pi$ ft, $A = 121\pi$ ft² 9) $C = 50.2$ m, $A = 201.0$ m²
 10) $A = 48\pi$ m² 11) $A = 18\pi$ in.² 12) $w = 9$ ft 13) $b = 9$ in. 14) $h = 8$ m 15) $b = 4$ ft
 16) $A = 225\pi$ units² 17) $C = 14\pi$ mi 18) $P = 30$ in. 19) 5 ft \times 13 ft 20-25) See Teacher
 26) 4 ft 27) 27 ft 28) 70 mm 29) $6\frac{1}{3}$ ft 30) $2\frac{4}{5}$ m or 2.8 m 31) 2 m 32) $P = 22$ in.
 33) $P = 24$ cm 34) $P = 30$ units 35) $A = 121$ m² 36) $A = 36$ yd² 37) $A = 80$ units²
 38) $A = 27$ in.² 39) $A = 20$ units² 40) $A = 14$ units² 41) $A = 14$ units² 42) $P = 400$ cm