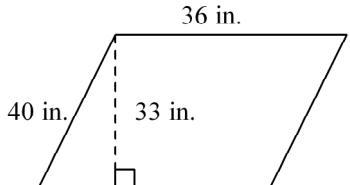


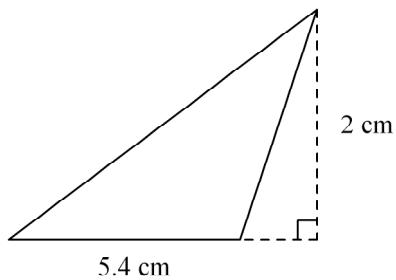
Geometry Stations**Multiple Choice***Identify the choice that best completes the statement or answers the question.***Find the area. The figure is not drawn to scale.**

____ 1.



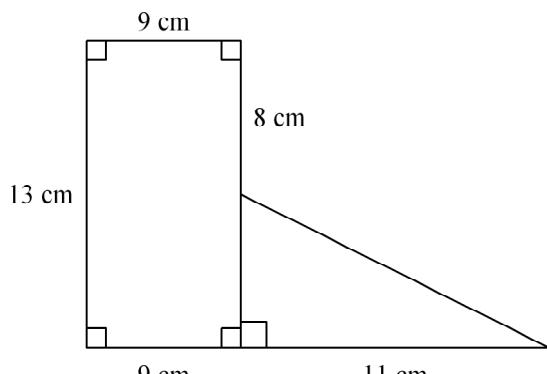
- a. 1188 in^2 b. 69 in^2 c. 138 in^2 d. 1440 in^2

____ 2.



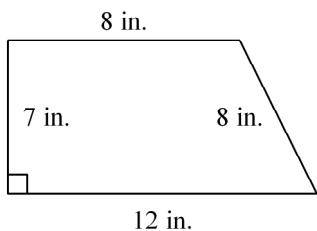
- a. 10.8 cm^2 b. 5.4 cm^2 c. 21.6 cm^2 d. 7.4 cm^2

____ 3.



- a. 144.5 cm^2 b. 127 cm^2 c. 172 cm^2 d. 50 cm^2

____ 4.



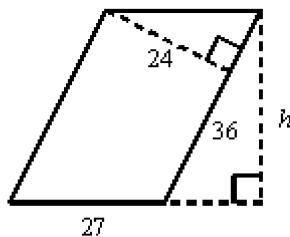
Not drawn to scale

- a. 77.2 in^2 b. 80 in^2 c. 75 in^2 d. 70 in^2

____ 5. The area of a parallelogram is 420 cm^2 and the height is 35 cm . Find the corresponding base.

- a. 385 cm b. 455 cm c. $14,700 \text{ cm}^2$ d. 12 cm

____ 6. Find the value of h in the parallelogram.

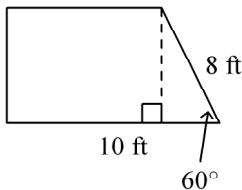


Not drawn to scale

- a. 32 b. 28 c. 40.5 d. 35

Find the area of the trapezoid. Leave your answer in simplest radical form.

____ 7.



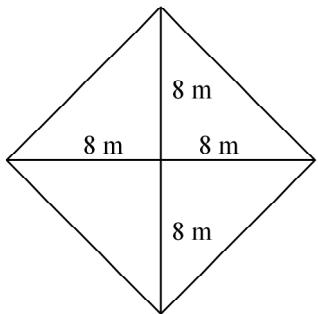
Not drawn to scale

- a. $40\sqrt{3} \text{ ft}^2$ b. $16\sqrt{3} \text{ ft}^2$ c. $24\sqrt{3} \text{ ft}^2$ d. $32\sqrt{3} \text{ ft}^2$

____ 8. A kite has diagonals 9.2 ft and 8 ft. What is the area of the kite?

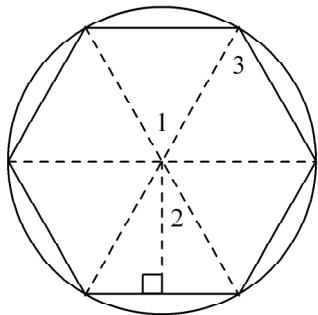
- a. 36.8 ft^2 b. 8.6 ft^2 c. 73.6 ft^2 d. 34.4 ft^2

- ____ 9. Find the area of the rhombus.



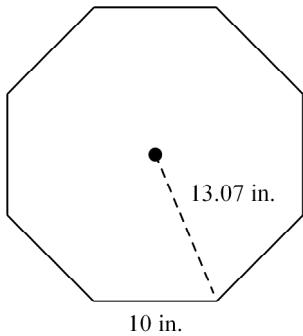
- a. 12 m^2 b. 4096 m^2 c. 128 m^2 d. 32 m^2

- ____ 10. Given the regular hexagon, find the measure of each numbered angle.



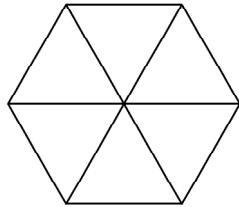
- a. $m\angle 1 = 30, m\angle 2 = 60, m\angle 3 = 30$ c. $m\angle 1 = 60, m\angle 2 = 30, m\angle 3 = 60$
b. $m\angle 1 = m\angle 2 = m\angle 3 = 60$ d. $m\angle 1 = 60, m\angle 2 = 30, m\angle 3 = 30$

- ____ 11. Find the area of the regular polygon. Round your answer to the nearest tenth.



- a. 176.6 in^2 b. 966.1 in^2 c. 80.0 in^2 d. 483.0 in^2

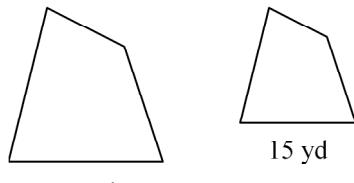
- ____ 12. You are planning to use a ceramic tile design in your new bathroom. The tiles are blue and white equilateral triangles. You decide to arrange the blue tiles in a hexagonal shape as shown. If the side of each tile measures 7 centimeters, what will be the exact area of each hexagonal shape?



- a. $73.5\sqrt{3} \text{ cm}^2$ b. $98\sqrt{3} \text{ cm}^2$ c. 21 cm^2 d. 1029 cm^2
- ____ 13. A regular hexagon has a perimeter of 150 m. Find its area. Leave your answer in simplest radical form.
- a. $5625\sqrt{3} \text{ m}^2$ b. $\frac{1875}{2}\sqrt{3} \text{ m}^2$ c. $\frac{25}{4}\sqrt{3} \text{ m}^2$ d. $\frac{5625}{2}\sqrt{3} \text{ m}^2$

The figures are similar. Give the ratio of the perimeters and the ratio of the areas of the first figure to the second. The figures are not drawn to scale.

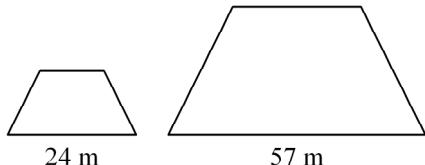
- ____ 14.



- a. $\frac{8}{3}$ and $\frac{10}{5}$ b. $\frac{9}{4}$ and $\frac{64}{9}$ c. $\frac{9}{4}$ and $\frac{10}{5}$ d. $\frac{8}{3}$ and $\frac{64}{9}$

The figures are similar. The area of one figure is given. Find the area of the other figure to the nearest whole number.

- ____ 15. The area of the smaller trapezoid is 558 m^2 .



Not drawn to scale

- a. 3147 m^2 b. 3249 m^2 c. 576 m^2 d. 14 m^2
- ____ 16. It costs a family \$324 to buy a 10-ft-by-12-ft rug. At this rate, what will it cost them to buy a 15-ft-by-18-ft rug?
- a. \$729 b. \$270 c. \$388.80 d. \$466.56

Find the area of the regular polygon. Give the answer to the nearest tenth.

- ____ 17. hexagon with side 8 yd
a. 332.6 yd^2 b. 12 yd^2 c. 41.6 yd^2 d. 166.3 yd^2
- ____ 18. pentagon with radius 8 m
a. 304.3 m^2 b. 152.2 m^2 c. 30.4 m^2 d. 154.2 m^2
- ____ 19. square with radius 16 ft
a. 520 ft^2 b. 512 ft^2 c. 256 ft^2 d. 1024 ft^2

**Geometry Stations
Answer Section****MULTIPLE CHOICE**

1. ANS: A	PTS: 1	DIF: L2	TOP: 10-1 Example 1
2. ANS: B	PTS: 1	DIF: L2	TOP: 10-1 Example 3
3. ANS: A	PTS: 1	DIF: L3	TOP: 10-1 Example 3
4. ANS: D	PTS: 1	DIF: L2	TOP: 10-2 Example 1
5. ANS: D	PTS: 1	DIF: L3	TOP: 10-1 Example 1
6. ANS: A	PTS: 1	DIF: L2	TOP: 10-1 Example 2
7. ANS: D	PTS: 1	DIF: L2	TOP: 10-2 Example 2
8. ANS: A	PTS: 1	DIF: L2	TOP: 10-2 Example 3
9. ANS: C	PTS: 1	DIF: L2	TOP: 10-2 Example 4
10. ANS: C	PTS: 1	DIF: L2	TOP: 10-3 Example 1
11. ANS: D	PTS: 1	DIF: L2	TOP: 10-3 Example 3
12. ANS: A	PTS: 1	DIF: L2	TOP: 10-3 Example 3
13. ANS: B	PTS: 1	DIF: L3	TOP: 10-3 Example 4
14. ANS: D	PTS: 1	DIF: L2	TOP: 10-4 Example 1
15. ANS: A	PTS: 1	DIF: L2	TOP: 10-4 Example 2
16. ANS: A	PTS: 1	DIF: L2	TOP: 10-4 Example 3
17. ANS: D	PTS: 1	DIF: L2	TOP: 10-5 Example 1
18. ANS: B	PTS: 1	DIF: L2	
19. ANS: B	PTS: 1	DIF: L2	