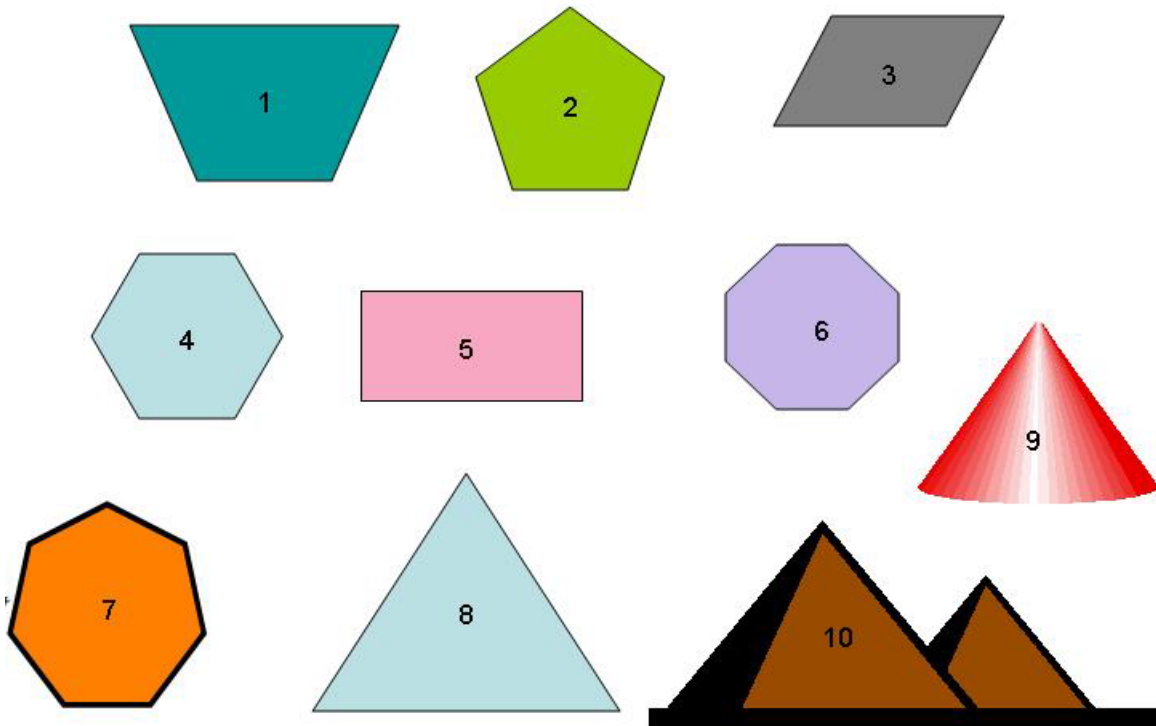


Use the figures below to solve questions 1 through 10.



1. Shape # 1 represents a

- a. Quadrilateral
- b. Parallelogram
- c. Trapezoid
- d. Triangle

2. Shape # 2 represents a

- a. Quadrilateral
- b. Pentagon
- c. Hexagon
- d. Heptagon

3. Shape # 3 represents a

- a. Quadrilateral
- b. Parallelogram
- c. Trapezoid
- d. Triangle

4. Shape #4 represents a

- a. Quadrilateral
- b. Pentagon
- c. Hexagon
- d. Heptagon

5. Shape # 5 represents a

- a. Quadrilateral
- b. Parallelogram
- c. Trapezoid
- d. Pentagon

6. Shape # 6 represents a(n)

- a. Pentagon
- b. Hexagon
- c. Heptagon
- d. Octagon

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7. Shape # 7 represents a(n)

- a. Pentagon
- b. Hexagon
- c. Heptagon
- d. Octagon

8. Shape # 8 represents a(n)

- a. Isosceles triangle
- b. Equilateral triangle
- c. Obtuse triangle
- d. Scalene triangle

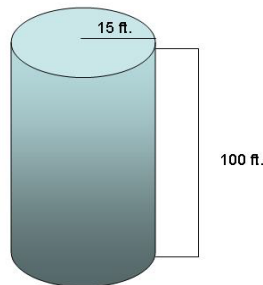
9. Shape # 9 represents a

- a. Triangle
- b. Pyramid
- c. Cone
- d. Circle

10. Shape # 10 represents a

- a. Triangle
- b. Pyramid
- c. Cone
- d. Rectangle

Use the figure below to answer questions 11 through 13.



11. Using the formula $v = \pi r^2 h$, determine how much water the tower can hold if the maximum height it can be filled is 75 feet? ($\pi = 3.14$)

- a. 52,987.50
- b. 26,493.75
- c. 70,650
- d. 35,325

12. Assuming the water tower can be filled to the actual height of the tower, what is the volume?

- a. 52,987.50
- b. 26,496.75
- c. 70,650
- d. 35,325

13. Using the formula πr^2 , what is the area of the tower?

- a. 706.50
- b. 353.25
- c. 47.10
- d. 94.20

Subskill # 49**Geometry/Planes and Solid Figures II**

Using the figure below, answer questions 14 and 15.



14. Using the formula $L \times W \times H$, what is the volume of the entire board?

- a. 2,304
- b. 288
- c. 384
- d. 1,152

15. Assuming a carpenter cuts the piece of wood along the dotted lines, what is the volume of the $4'' \times 6'' \times 24''$ piece?

- a. 144
- b. 96
- c. 576
- d. 288

Answer Key

1. C
2. B
3. B
4. C
5. A
6. D
7. C
8. A
9. C
10. B
11. A
12. C
13. A
14. A
15. C