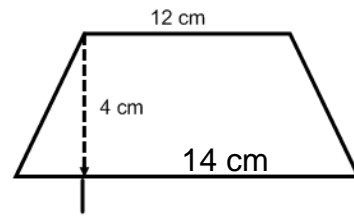


Area Study Guide

Name: Answer Key Date: _____ Period: _____

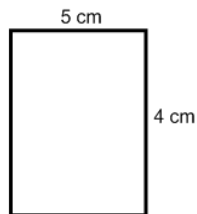
1) Find the area of the following composite figure:

1. 52 cm^2



2) Find the area of the following:

2. 20 cm^2



3) Find the volume of a cube with a side length of $\frac{3}{5}$ in.

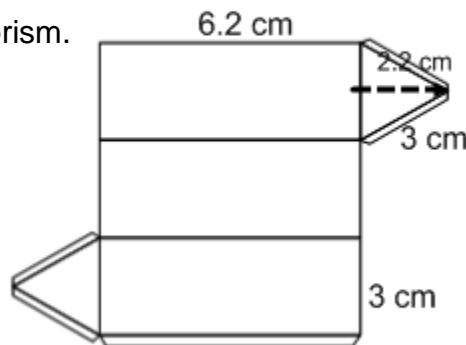
3. $\frac{27}{125} \text{ cm}^3$

4) Find the surface area of a cube with a side length of 5 inches.

4. 150 in^2

5) Find the surface area of the triangular prism.

5. 62.4 cm^2



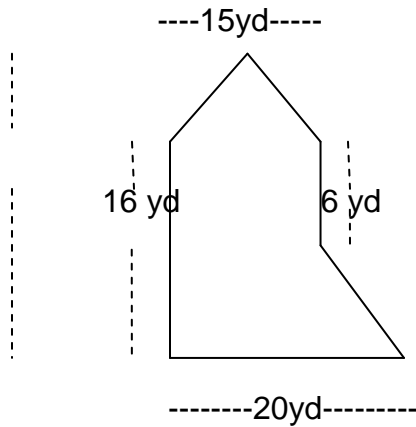
6) Find the surface area of a rectangular prism with a length of 130mm, width of 18mm, and a height of 31mm.

6. $13,856 \text{ mm}^2$

7) Find the volume of a rectangular prism with dimension of $l = \frac{2}{3}$ cm, $w = 3\frac{1}{2}$ cm, and $h = 3$ cm.

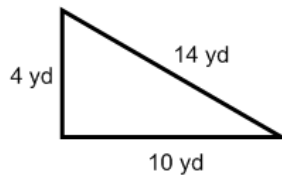
7. 7 cm^3

8) Find the area of the composite shape below.



8. 405 yd²

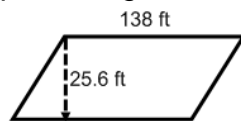
9) Find the area of the triangle.



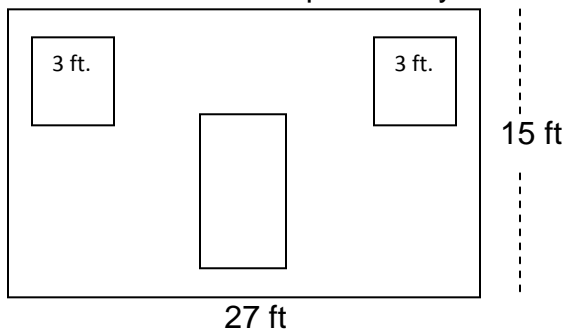
9. 20 yd²

10) Find the area of the parallelogram.

10. 3532.8 ft²



11) The wall below has a door and two square windows. The width of the door is equal to the width of the windows and the length of the door is 9 ft. I am only painting the wall space. Find the amount of area to be painted by subtracting out the windows and the door from the total area.



11. 360 ft²

12) Explain how to derive the formula of a triangle.

12. A triangle is half of a rectangle, the formula to find area of a rectangle is $A = l * w$. If a triangle is equal to half of a rectangle then to find the area of a triangle you would divide the area of a rectangle in half, therefore the formula to find area of a triangle is, $A = \frac{1}{2} * b * h$.

