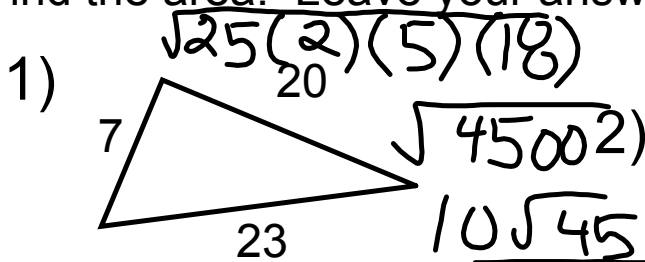
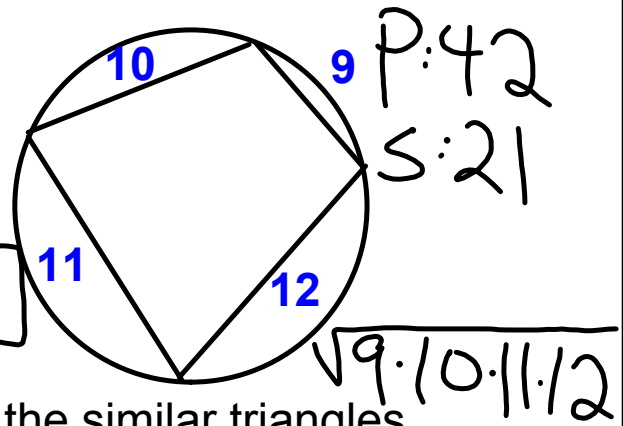


Warm-up

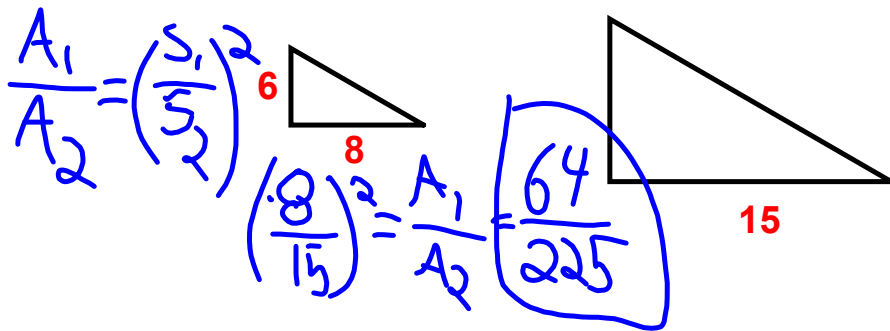
Find the area. Leave your answers in simplest radical form.



P: 50 S: 25 $30\sqrt{5}$



3) Find the ratio of the areas of the similar triangles.



$\sqrt{11880}$
 $6\sqrt{330}$

Video Time!!!

● Nissan Rogue and Girl Scout Cookies

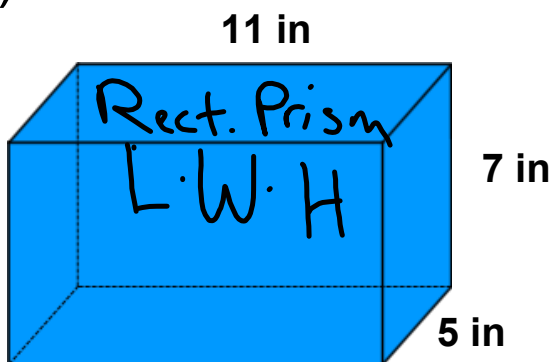
● Volume

You need your index cards, too :)

Examples

Find the volume of each figure to the nearest tenth.

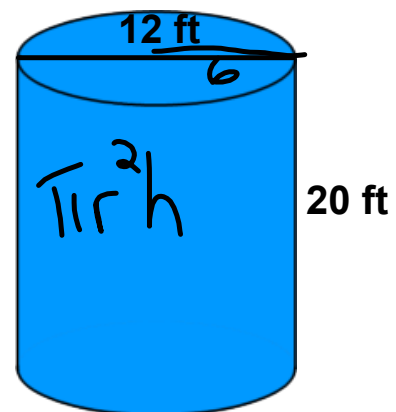
1)



$$5 \cdot 7 \cdot 11$$

$$385 \text{ in}^3$$

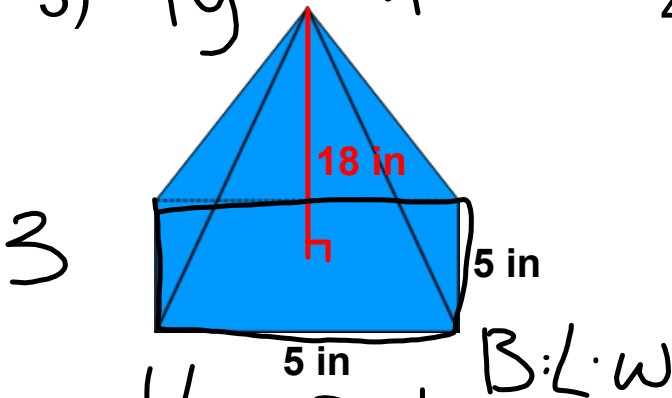
2)



$$36 \cdot 20 \cdot \pi$$

$$720\pi \text{ ft}^3$$

3) Pyramid

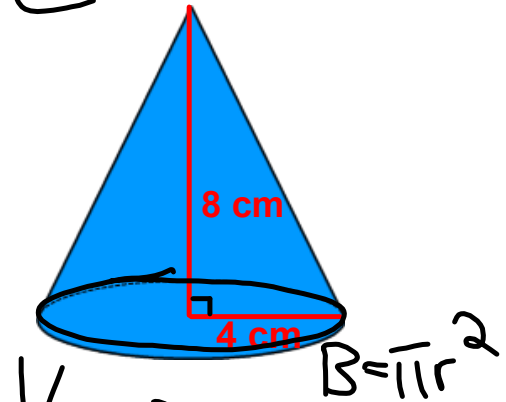


$$\frac{1}{3} \cdot B \cdot h$$

$$\frac{1}{3} \cdot 25 \cdot 18$$

$$150 \text{ in}^3$$

4) Cone



$$\frac{1}{3} \cdot B \cdot h$$

$$\frac{1}{3} \cdot 16 \cdot \pi \cdot 8$$

$$\frac{1}{3} \cdot 128 \pi$$

$$42 \frac{2}{3} \pi \text{ cm}^3$$

Tri: Prism

13

5

15

12

$\frac{1}{2} \cdot B \cdot h$

$\frac{1}{2} \cdot 12 \cdot 15 \cdot 5$

15

13

5

12

$\frac{1}{2} \cdot 5 \cdot 12 \cdot 15$

450

The diagram shows a 3D perspective of a hexagonal prism on the left. The height of the prism is labeled as 10. Below it is the formula $B \cdot h$. To the right is a 2D diagram of the hexagonal base. The base is divided into six equilateral triangles by lines from the center to each vertex. The side length of the hexagon is labeled as 6. The height of one of these triangles is labeled as 3, and the apothem (distance from center to the midpoint of a side) is labeled as $3\sqrt{3}$. Above the base diagram is the label $\frac{1}{2}ap$. Below the base diagram is a large rounded rectangle containing the calculation $\frac{1}{2} \cdot 3\sqrt{3} \cdot 36 \cdot 10$.

Classwork / Homework

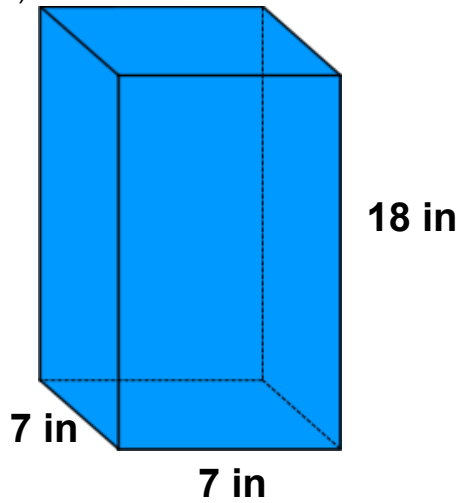
p. 579 #1, 3 - 6 (Volume ONLY), 10a,
12 - 14, 16, 17a

p. 585 #1, 2, 3a, 4, 5a, 6 - 9

Exit Slip

Find the volume.

1)



2)

