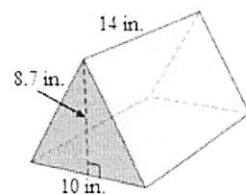
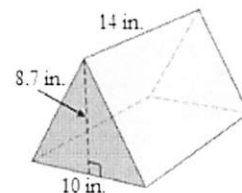
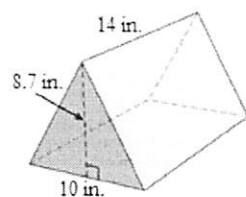
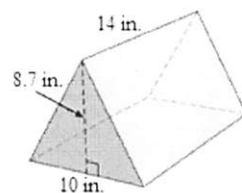
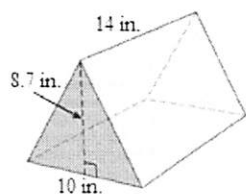
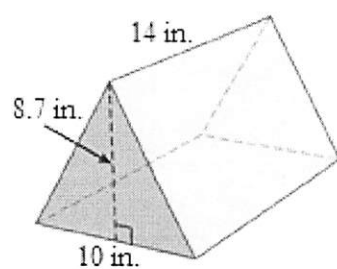
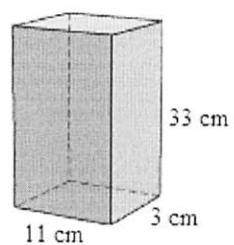


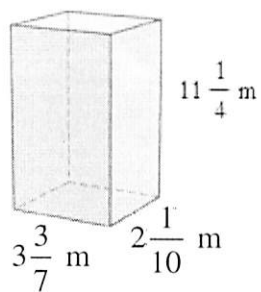
1. Find the Surface Area of the **Regular Triangular Prism**.

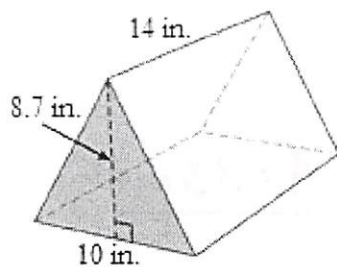


2. Find the Surface Area of the Rectangular Prism.

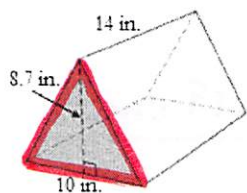


3. Find the Volume of the Rectangular Prism as a fraction in simplest form.



1. Find the Surface Area of the **Regular Triangular Prism**.

Front Face

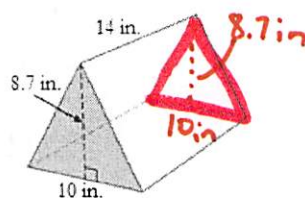


$$A = \frac{b \cdot h}{2}$$

$$A = \frac{10 \cdot 8.7}{2}$$

$$A = 43.5 \text{ in}^2$$

Back Face

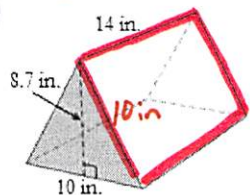


$$A = \frac{b \cdot h}{2}$$

$$A = \frac{10 \cdot 8.7}{2}$$

$$A = 43.5 \text{ in}^2$$

Right Face

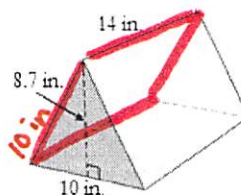


$$A = b \cdot h$$

$$A = 14 \cdot 10$$

$$A = 140 \text{ in}^2$$

Left Face

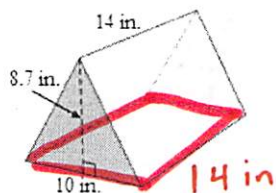


$$A = b \cdot h$$

$$A = 10 \cdot 14$$

$$A = 140 \text{ in}^2$$

Bottom Face



$$A = b \cdot h$$

$$A = 10 \cdot 14$$

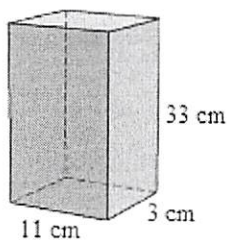
$$A = 140 \text{ in}^2$$

Total Surface

Area =

$$507 \text{ in}^2$$

2. Find the Surface Area of the Rectangular Prism.



$$\text{Top Face} = \text{Bottom Face}$$

$$A = b \cdot h$$

$$A = 11 \cdot 3$$

$$\underline{A = 33 \text{ cm}^2}$$

$$\underline{A = 33 \text{ cm}^2}$$

$$\text{Right Face} = \text{Left Face}$$

$$A = b \cdot h$$

$$A = 3 \cdot 33$$

$$\underline{A = 99 \text{ cm}^2}$$

$$\underline{A = 99 \text{ cm}^2}$$

$$\text{Front Face} = \text{Back Face}$$

$$A = b \cdot h$$

$$A = 11 \cdot 33$$

$$\underline{A = 363 \text{ cm}^2}$$

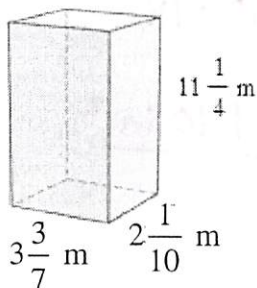
$$\underline{A = 363 \text{ cm}^2}$$

Total Surface

Area =

$$990 \text{ cm}^2$$

3. Find the Volume of the Rectangular Prism as a fraction in simplest form.



$$V = L \cdot W \cdot H$$

$$V = 3\frac{3}{7} \cdot 2\frac{1}{10} \cdot 11\frac{1}{4}$$

$$V = \frac{24}{7} \cdot \frac{21}{10} \cdot \frac{45}{4} = \frac{81}{1}$$

$$\underline{V = 81 \text{ m}^3}$$