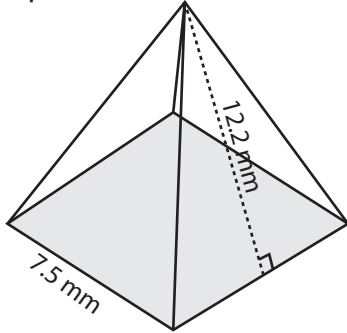


Surface Area - Square Pyramid

Example:



$$\text{Surface area} = \text{base area} + \frac{1}{2} \times \text{perimeter} \times \text{slant height}$$

$$\text{Base area} = \text{side} \times \text{side} = 56.25 \text{ mm}^2$$

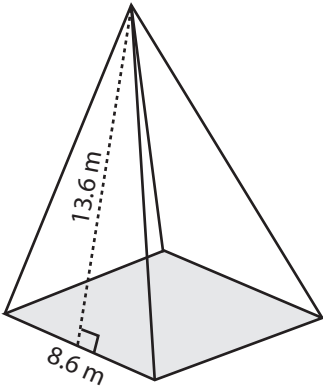
$$\text{Perimeter} = 4 \times \text{side} = 30 \text{ mm}$$

$$= 56.25 + \frac{1}{2} \times 30 \times 12.2$$

$$= \mathbf{239.25 \text{ mm}^2}$$

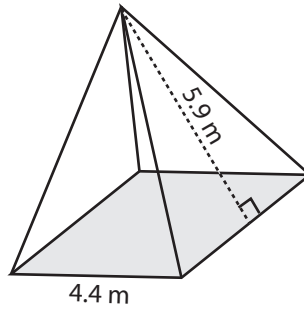
Find the surface area of each square pyramid.

1)



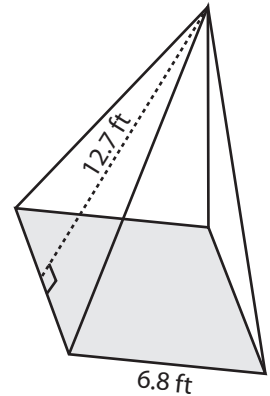
Surface Area = _____

2)



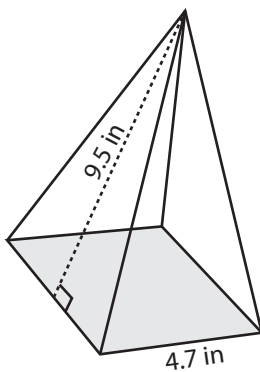
Surface Area = _____

3)



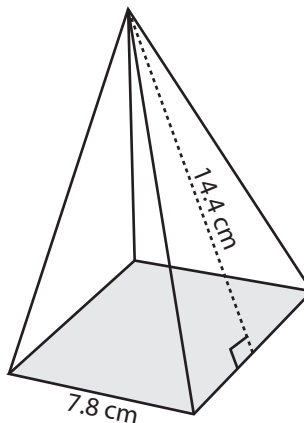
Surface Area = _____

4)



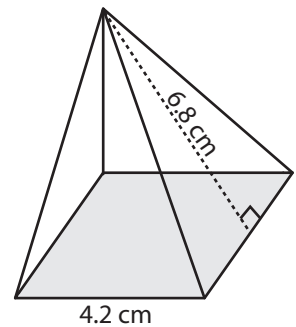
Surface Area = _____

5)



Surface Area = _____

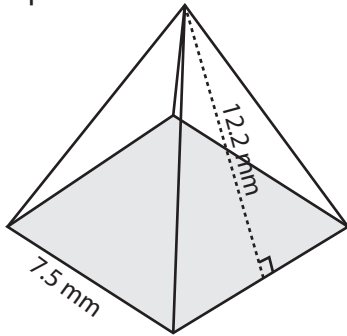
6)



Surface Area = _____

Answer Key

Example:



$$\text{Surface area} = \text{base area} + \frac{1}{2} \times \text{perimeter} \times \text{slant height}$$

$$\text{Base area} = \text{side} \times \text{side} = 56.25 \text{ mm}^2$$

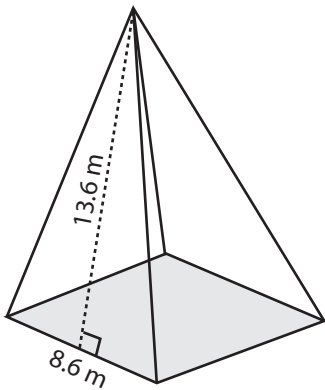
$$\text{Perimeter} = 4 \times \text{side} = 30 \text{ mm}$$

$$= 56.25 + \frac{1}{2} \times 30 \times 12.2$$

$$= \mathbf{239.25 \text{ mm}^2}$$

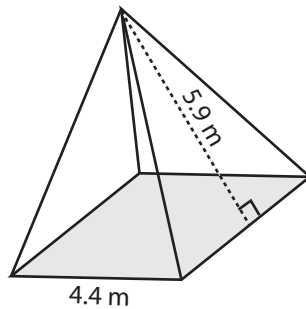
Find the surface area of each square pyramid.

1)



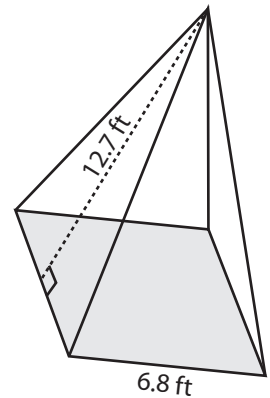
$$\text{Surface Area} = \mathbf{307.88 \text{ m}^2}$$

2)



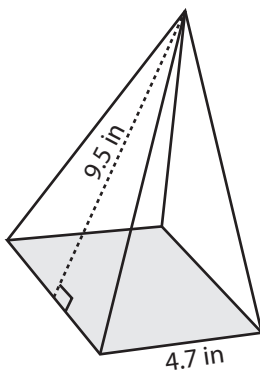
$$\text{Surface Area} = \mathbf{71.28 \text{ m}^2}$$

3)



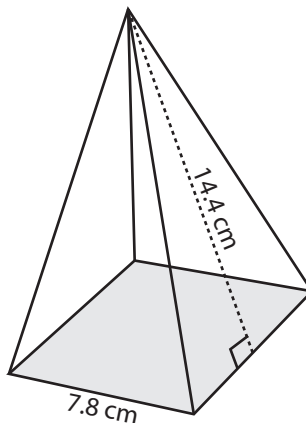
$$\text{Surface Area} = \mathbf{218.96 \text{ ft}^2}$$

4)



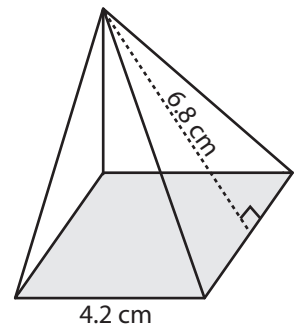
$$\text{Surface Area} = \mathbf{111.39 \text{ in}^2}$$

5)



$$\text{Surface Area} = \mathbf{285.48 \text{ cm}^2}$$

6)



$$\text{Surface Area} = \mathbf{74.76 \text{ cm}^2}$$