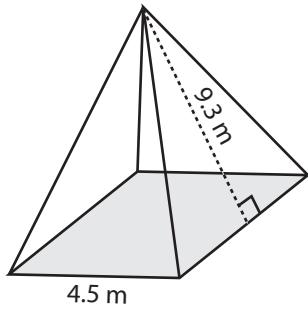


### Surface Area - Square Pyramid

Example:



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

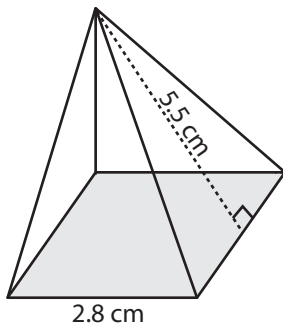
$$\text{Base area} = \text{side} \times \text{side} = 4.5 \times 4.5 = 20.25 \text{ m}^2$$

$$\text{Perimeter} = 4 \times \text{side} = 4 \times 4.5 = 18 \text{ m}$$

$$\begin{aligned} \text{Surface area} &= 20.25 + \frac{1}{2} \times 18 \times 9.3 \\ &= \mathbf{103.95 \text{ m}^2} \end{aligned}$$

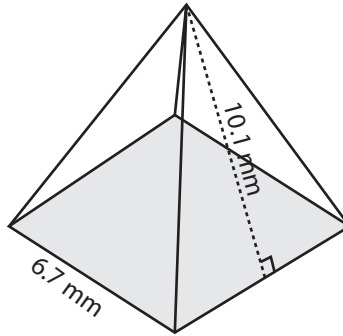
Find the surface area of each square pyramid.

1)



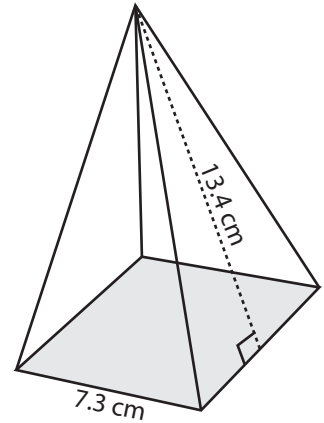
Surface Area = \_\_\_\_\_

2)



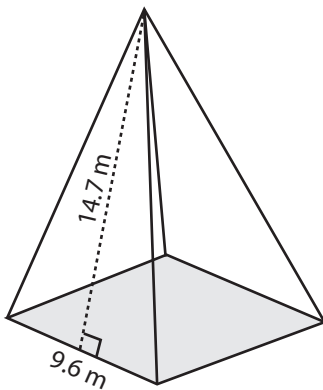
Surface Area = \_\_\_\_\_

3)



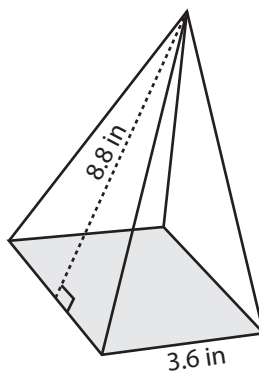
Surface Area = \_\_\_\_\_

4)



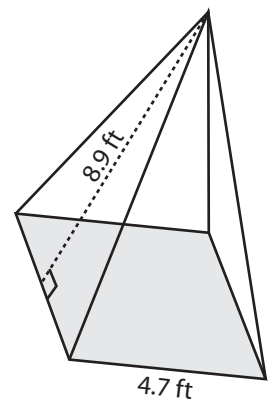
Surface Area = \_\_\_\_\_

5)



Surface Area = \_\_\_\_\_

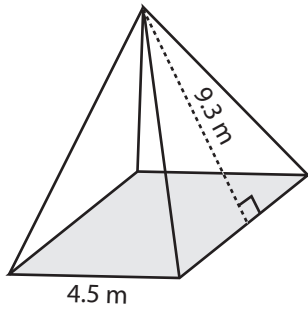
6)



Surface Area = \_\_\_\_\_

**Answer Key**

Example:



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

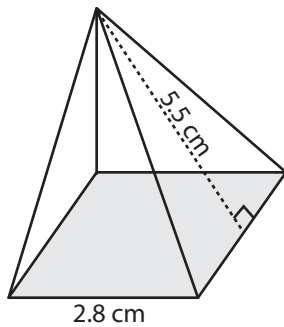
$$\text{Base area} = \text{side} \times \text{side} = 4.5 \times 4.5 = 20.25 \text{ m}^2$$

$$\text{Perimeter} = 4 \times \text{side} = 4 \times 4.5 = 18 \text{ m}$$

$$\begin{aligned} \text{Surface area} &= 20.25 + \frac{1}{2} \times 18 \times 9.3 \\ &= \mathbf{103.95 \text{ m}^2} \end{aligned}$$

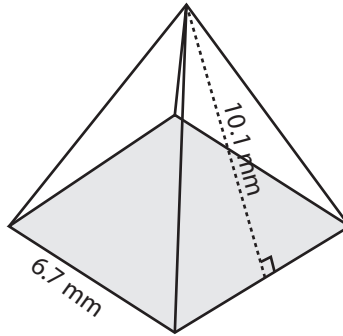
Find the surface area of each square pyramid.

1)



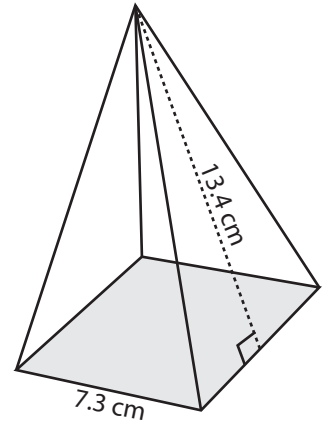
$$\text{Surface Area} = \mathbf{38.64 \text{ cm}^2}$$

2)



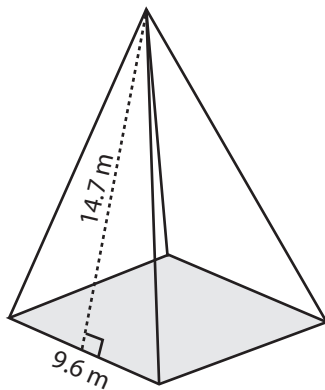
$$\text{Surface Area} = \mathbf{180.23 \text{ mm}^2}$$

3)



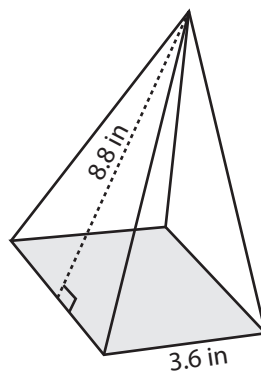
$$\text{Surface Area} = \mathbf{248.93 \text{ cm}^2}$$

4)



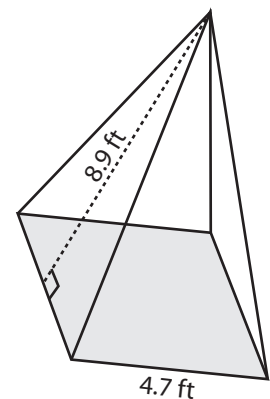
$$\text{Surface Area} = \mathbf{374.4 \text{ m}^2}$$

5)



$$\text{Surface Area} = \mathbf{76.32 \text{ in}^2}$$

6)



$$\text{Surface Area} = \mathbf{105.75 \text{ ft}^2}$$