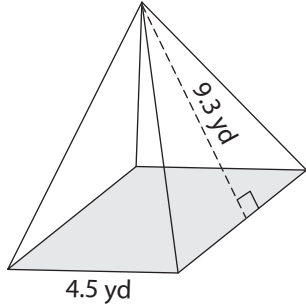


Name : _____

Decimals: S1

Surface Area of Square Pyramids

Example:



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

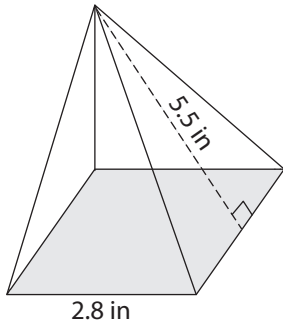
$$\text{Base area} = \text{side} \times \text{side} = 4.5 \times 4.5 = 20.25 \text{ yd}^2$$

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

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

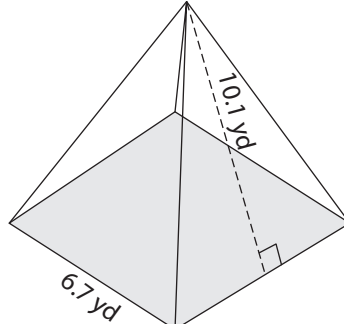
Find the surface area of each square pyramid.

1)



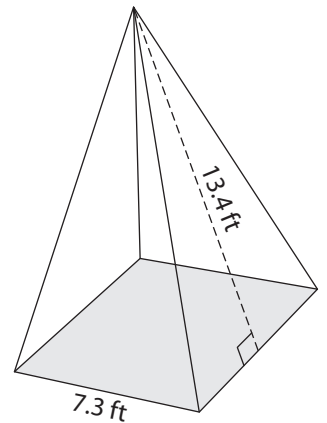
Surface Area = _____

2)



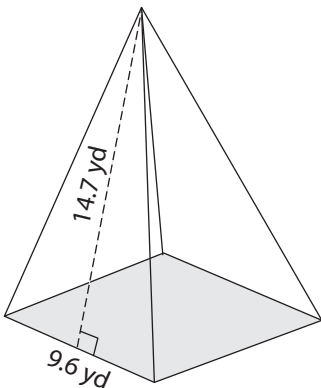
Surface Area = _____

3)



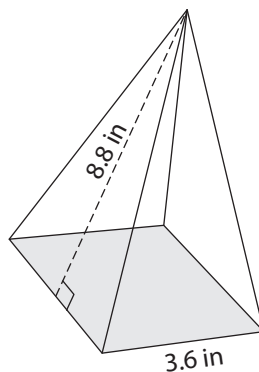
Surface Area = _____

4)



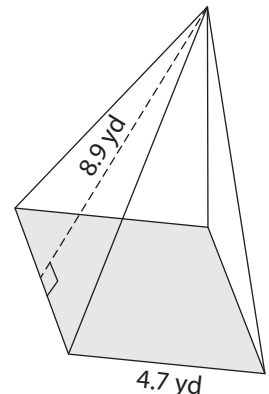
Surface Area = _____

5)



Surface Area = _____

6)

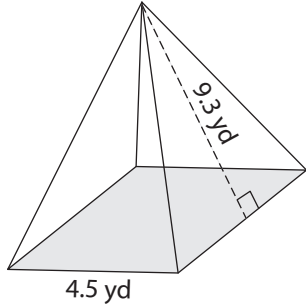


Surface Area = _____

Name : _____

Surface Area of Square Pyramids

Example:



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

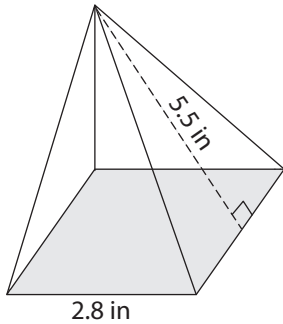
$$\text{Base area} = \text{side} \times \text{side} = 4.5 \times 4.5 = 20.25 \text{ yd}^2$$

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

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

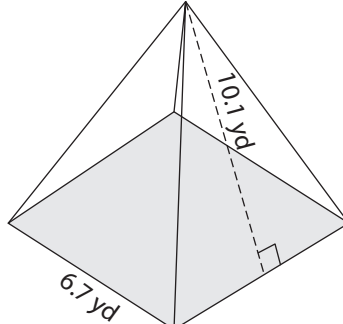
Find the surface area of each square pyramid.

1)



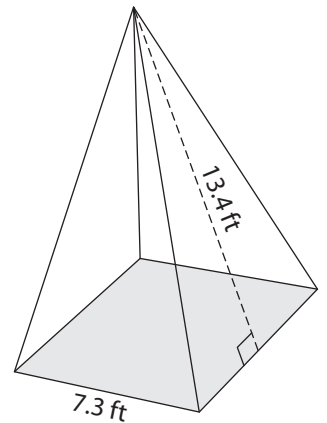
Surface Area = 38.64 in²

2)



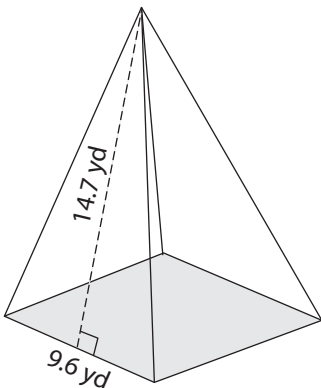
Surface Area = 180.23 yd²

3)



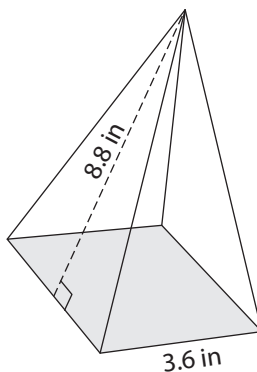
Surface Area = 248.93 ft²

4)



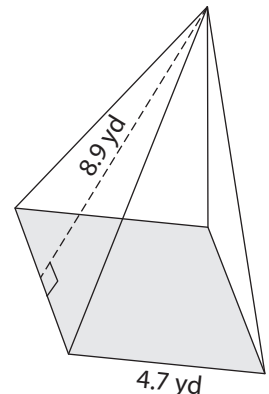
Surface Area = 374.4 yd²

5)



Surface Area = 76.32 in²

6)



Surface Area = 105.75 yd²