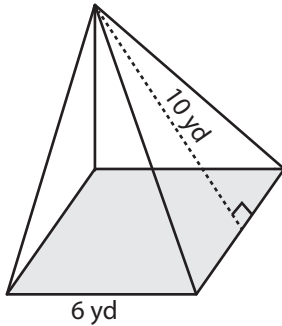


Surface Area - Square Pyramid

ES1

Example:



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

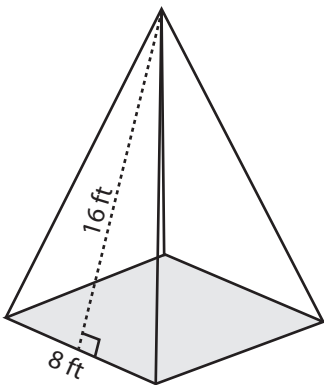
$$\text{Base area} = \text{side} \times \text{side} = 6 \times 6 = 36 \text{ yd}^2$$

$$\text{Perimeter} = 4 \times \text{side} = 4 \times 6 = 24 \text{ yd}$$

$$\begin{aligned} \text{Surface area} &= 36 + \frac{1}{2} \times 24 \times 10 \\ &= \mathbf{156 \text{ yd}^2} \end{aligned}$$

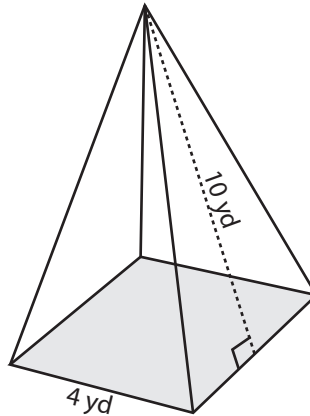
Find the surface area of each square pyramid.

1)



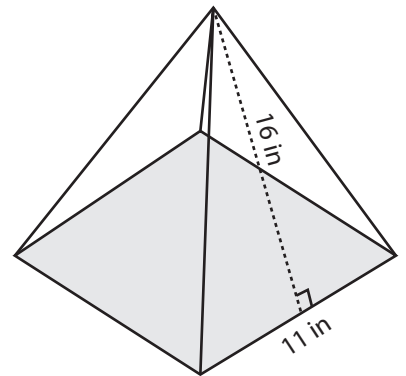
Surface Area = _____

2)



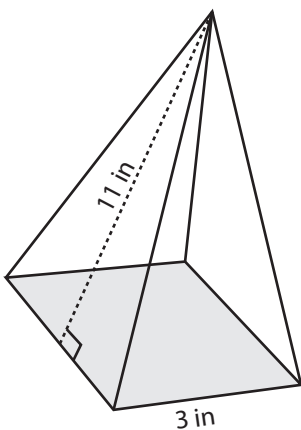
Surface Area = _____

3)



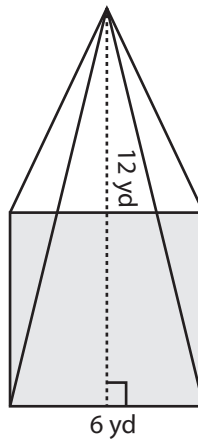
Surface Area = _____

4)



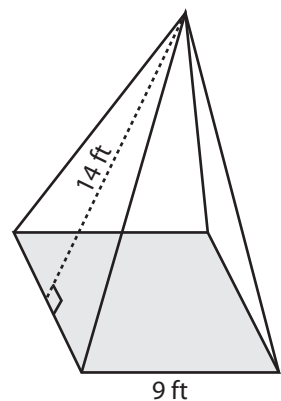
Surface Area = _____

5)



Surface Area = _____

6)

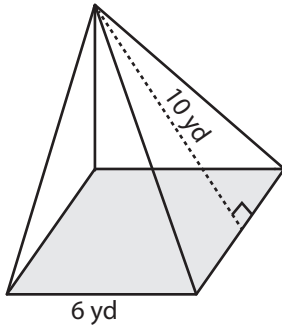


Surface Area = _____

Answer key**Surface Area - Square Pyramid**

ES1

Example:



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

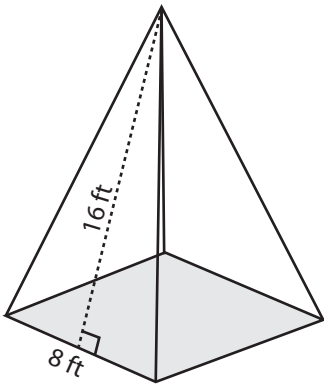
$$\text{Base area} = \text{side} \times \text{side} = 6 \times 6 = 36 \text{ yd}^2$$

$$\text{Perimeter} = 4 \times \text{side} = 4 \times 6 = 24 \text{ yd}$$

$$\begin{aligned} \text{Surface area} &= 36 + \frac{1}{2} \times 24 \times 10 \\ &= \mathbf{156 \text{ yd}^2} \end{aligned}$$

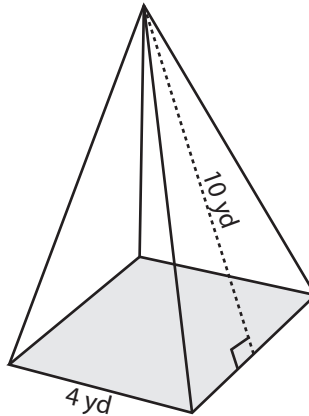
Find the surface area of each square pyramid.

1)



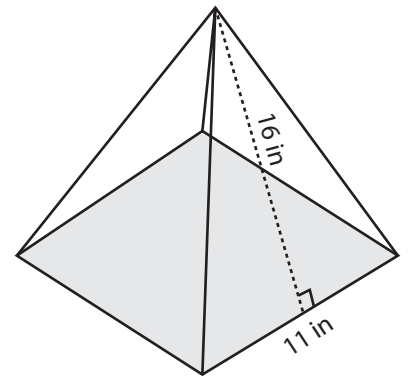
$$\text{Surface Area} = \mathbf{320 \text{ ft}^2}$$

2)



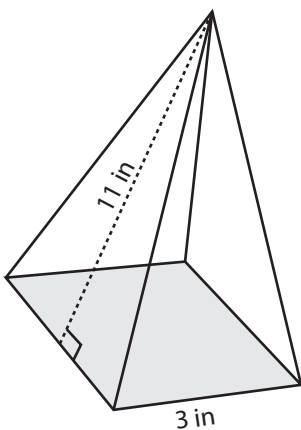
$$\text{Surface Area} = \mathbf{96 \text{ yd}^2}$$

3)



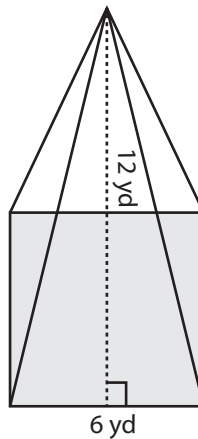
$$\text{Surface Area} = \mathbf{473 \text{ in}^2}$$

4)



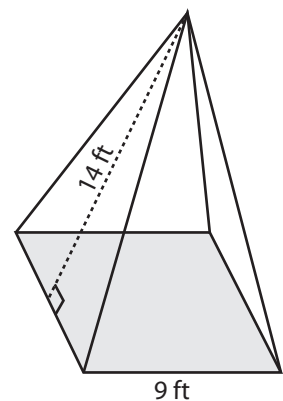
$$\text{Surface Area} = \mathbf{75 \text{ in}^2}$$

5)



$$\text{Surface Area} = \mathbf{180 \text{ yd}^2}$$

6)

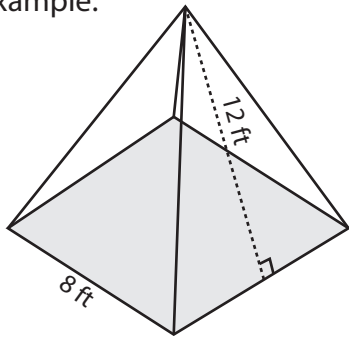


$$\text{Surface Area} = \mathbf{333 \text{ ft}^2}$$

Surface Area - Square Pyramid

ES2

Example:



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

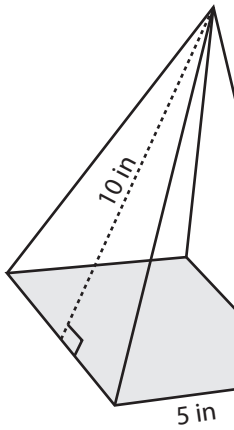
$$\text{Base area} = \text{side} \times \text{side} = 8 \times 8 = 64 \text{ ft}^2$$

$$\text{Perimeter} = 4 \times \text{side} = 4 \times 8 = 32 \text{ ft}$$

$$\begin{aligned} \text{Surface area} &= 64 + \frac{1}{2} \times 32 \times 12 \\ &= \mathbf{256 \text{ ft}^2} \end{aligned}$$

Find the surface area of each

1)



Surface Area = _____

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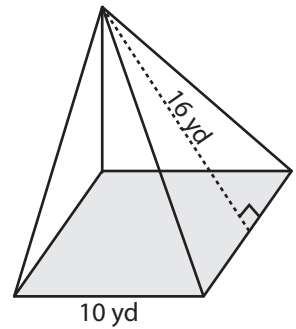
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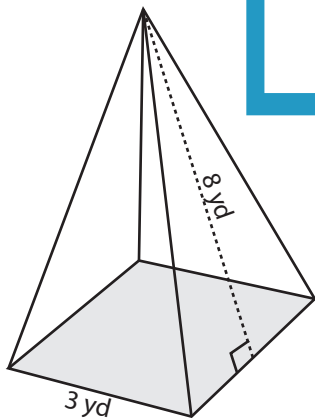
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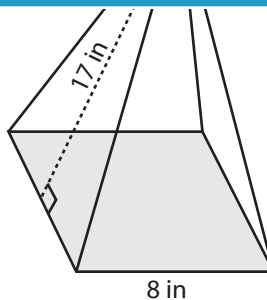


Surface Area = _____

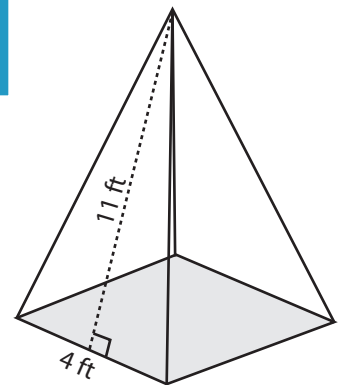
4)



Surface Area = _____



Surface Area = _____

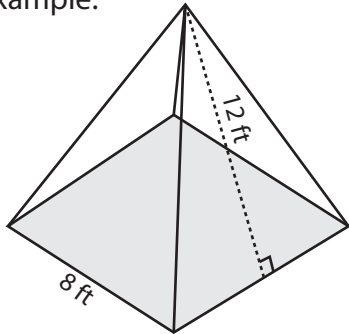


Surface Area = _____

Answer key**Surface Area - Square Pyramid**

ES2

Example:



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

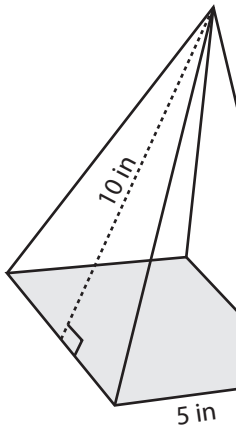
$$\text{Base area} = \text{side} \times \text{side} = 8 \times 8 = 64 \text{ ft}^2$$

$$\text{Perimeter} = 4 \times \text{side} = 4 \times 8 = 32 \text{ ft}$$

$$\begin{aligned} \text{Surface area} &= 64 + \frac{1}{2} \times 32 \times 12 \\ &= \mathbf{256 \text{ ft}^2} \end{aligned}$$

Find the surface area of each

1)



$$\text{Surface Area} = \mathbf{125 \text{ in}^2}$$

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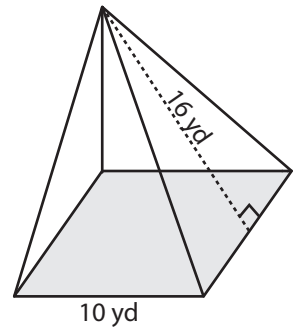
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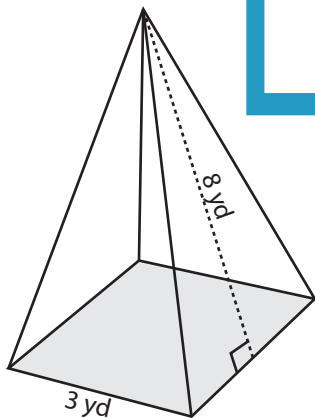
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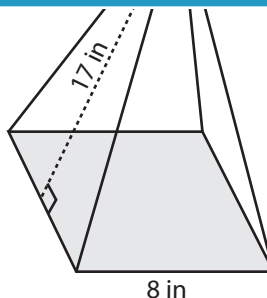


$$\text{Surface Area} = \mathbf{420 \text{ yd}^2}$$

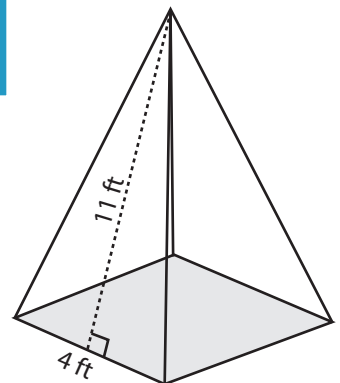
4)



$$\text{Surface Area} = \mathbf{57 \text{ yd}^2}$$



$$\text{Surface Area} = \mathbf{336 \text{ in}^2}$$

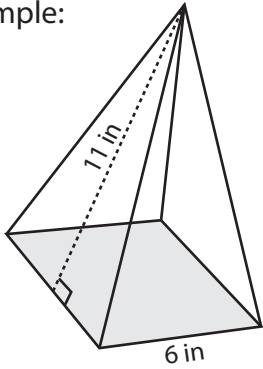


$$\text{Surface Area} = \mathbf{104 \text{ ft}^2}$$

Surface Area - Square Pyramid

ES3

Example:



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

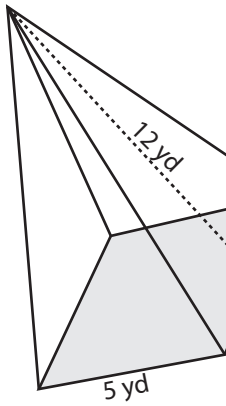
$$\text{Base area} = \text{side} \times \text{side} = 6 \times 6 = 36 \text{ in}^2$$

$$\text{Perimeter} = 4 \times \text{side} = 4 \times 6 = 24 \text{ in}$$

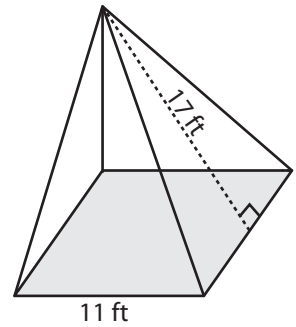
$$\begin{aligned} \text{Surface area} &= 36 + \frac{1}{2} \times 24 \times 11 \\ &= \mathbf{168 \text{ in}^2} \end{aligned}$$

Find the surface area of each

1)

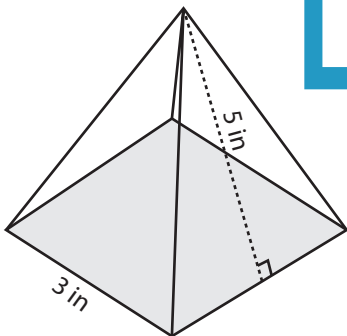


Surface Area = _____

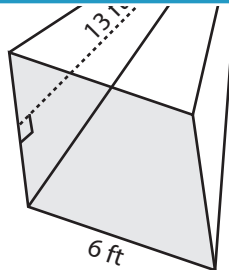


Surface Area = _____

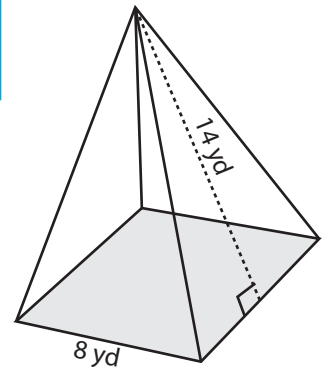
4)



Surface Area = _____



Surface Area = _____



Surface Area = _____

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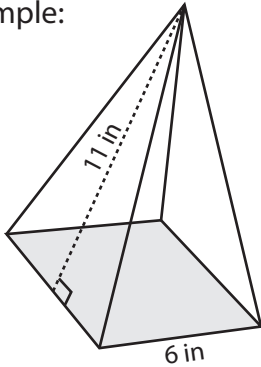
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Answer key**Surface Area - Square Pyramid**

ES3

Example:



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

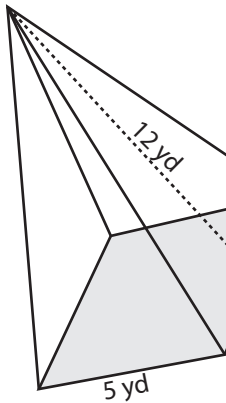
$$\text{Base area} = \text{side} \times \text{side} = 6 \times 6 = 36 \text{ in}^2$$

$$\text{Perimeter} = 4 \times \text{side} = 4 \times 6 = 24 \text{ in}$$

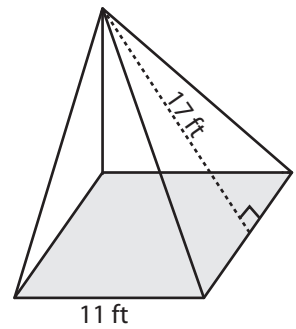
$$\begin{aligned} \text{Surface area} &= 36 + \frac{1}{2} \times 24 \times 11 \\ &= \mathbf{168 \text{ in}^2} \end{aligned}$$

Find the surface area of each

1)

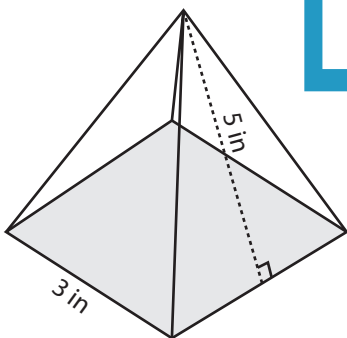


$$\text{Surface Area} = \underline{\mathbf{145 \text{ yd}^2}}$$

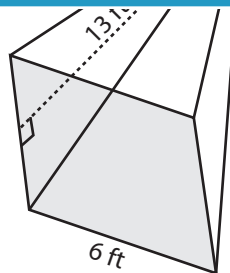


$$\text{Surface Area} = \underline{\mathbf{495 \text{ ft}^2}}$$

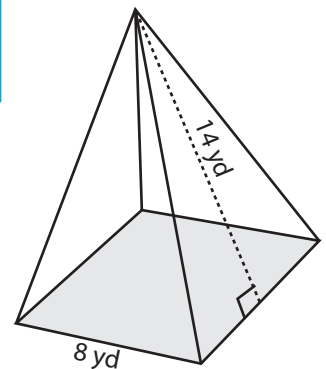
4)



$$\text{Surface Area} = \underline{\mathbf{39 \text{ in}^2}}$$



$$\text{Surface Area} = \underline{\mathbf{192 \text{ ft}^2}}$$



$$\text{Surface Area} = \underline{\mathbf{288 \text{ yd}^2}}$$

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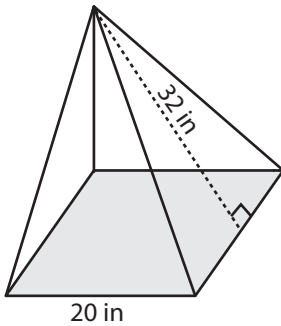
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Surface Area - Square Pyramid

MS1

Example:



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

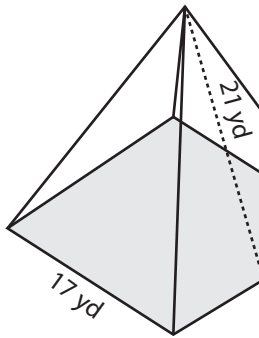
$$\text{Base area} = \text{side} \times \text{side} = 20 \times 20 = 400 \text{ in}^2$$

$$\text{Base perimeter} = 4 \times \text{side} = 4 \times 20 = 80 \text{ in}$$

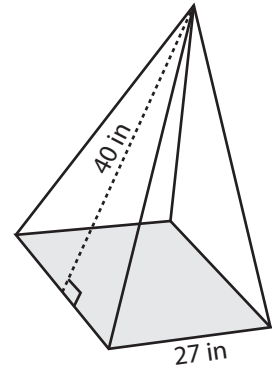
$$\begin{aligned} \text{Surface area} &= 400 + \frac{1}{2} \times 80 \times 32 \\ &= \mathbf{1680 \text{ in}^2} \end{aligned}$$

Find the surface area of each

1)

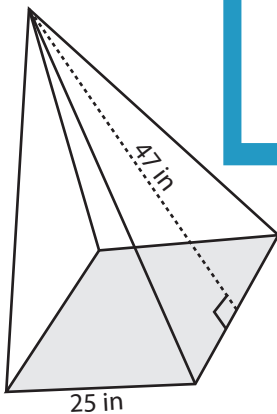


Surface Area = _____

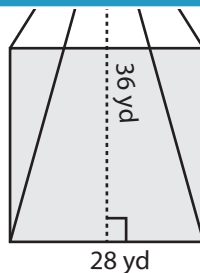


Surface Area = _____

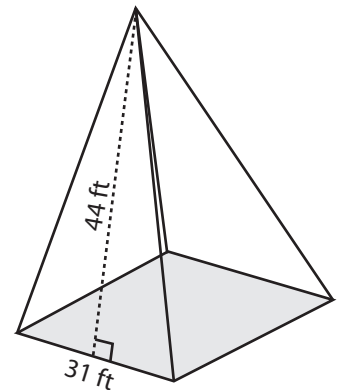
4)



Surface Area = _____



Surface Area = _____



Surface Area = _____

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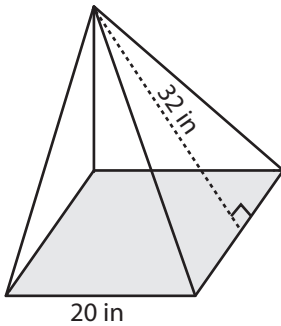
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Surface Area - Square Pyramid

MS1

Example:



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

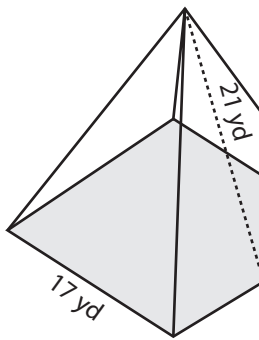
$$\text{Base area} = \text{side} \times \text{side} = 20 \times 20 = 400 \text{ in}^2$$

$$\text{Base perimeter} = 4 \times \text{side} = 4 \times 20 = 80 \text{ in}$$

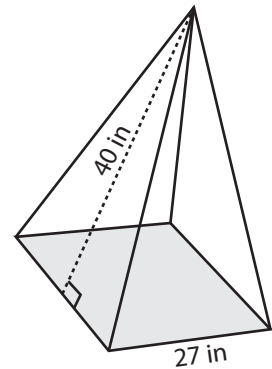
$$\begin{aligned} \text{Surface area} &= 400 + \frac{1}{2} \times 80 \times 32 \\ &= \mathbf{1680 \text{ in}^2} \end{aligned}$$

Find the surface area of each

1)

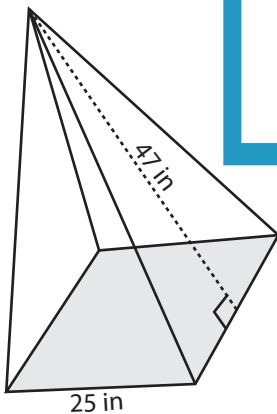


Surface Area = 1003 yd

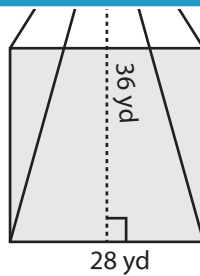


Surface Area = 2889 in²

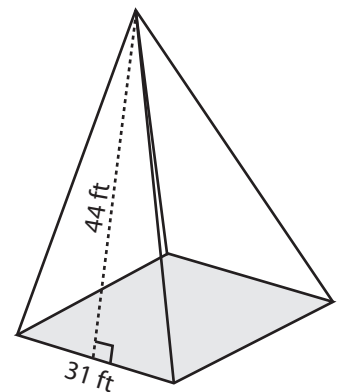
4)



Surface Area = 2975 in²



Surface Area = 2800 yd²



Surface Area = 3689 ft²

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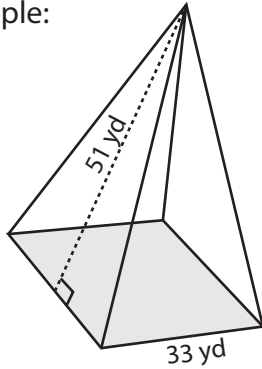
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Surface Area - Square Pyramid

MS2

Example:



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

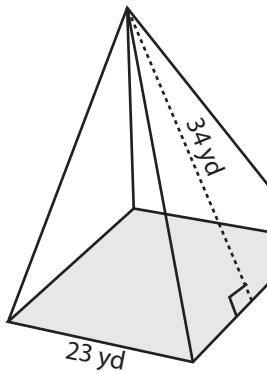
$$\text{Base area} = \text{side} \times \text{side} = 33 \times 33 = 1089 \text{ yd}^2$$

$$\text{Perimeter} = 4 \times \text{side} = 4 \times 33 = 132 \text{ yd}$$

$$\begin{aligned} \text{Surface area} &= 1089 + \frac{1}{2} \times 132 \times 51 \\ &= \mathbf{4455 \text{ yd}^2} \end{aligned}$$

Find the surface area of each

1)



Surface Area = _____

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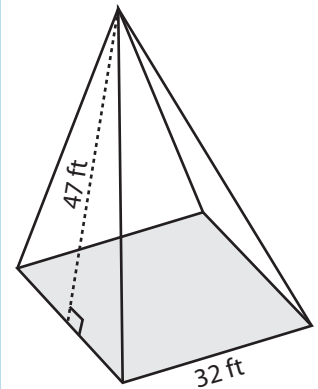
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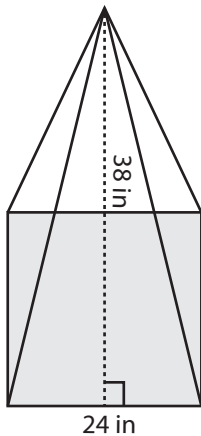
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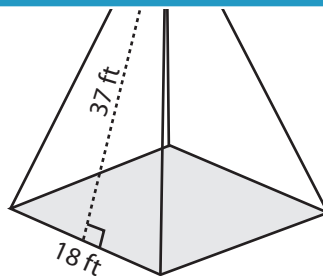


Surface Area = _____

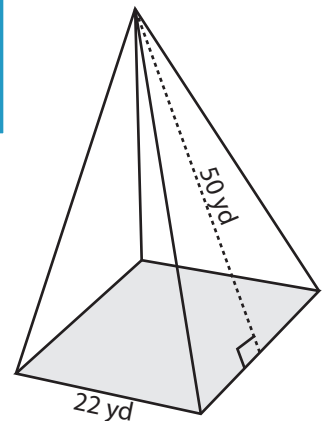
4)



Surface Area = _____



Surface Area = _____

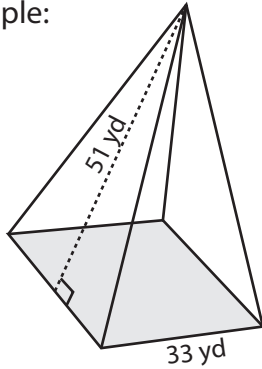


Surface Area = _____

Surface Area - Square Pyramid

MS2

Example:



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

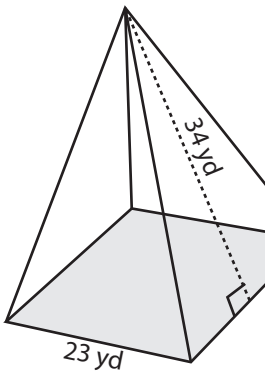
$$\text{Base area} = \text{side} \times \text{side} = 33 \times 33 = 1089 \text{ yd}^2$$

$$\text{Perimeter} = 4 \times \text{side} = 4 \times 33 = 132 \text{ yd}$$

$$\begin{aligned} \text{Surface area} &= 1089 + \frac{1}{2} \times 132 \times 51 \\ &= \mathbf{4455 \text{ yd}^2} \end{aligned}$$

Find the surface area of each

1)



Surface Area = 2093 yd²

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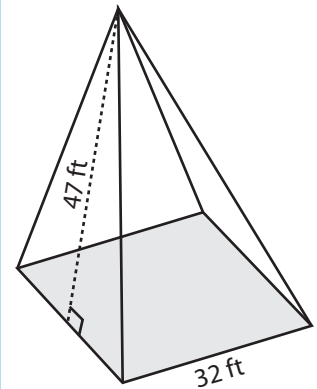
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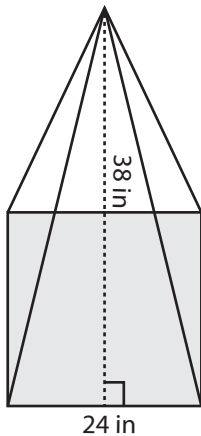
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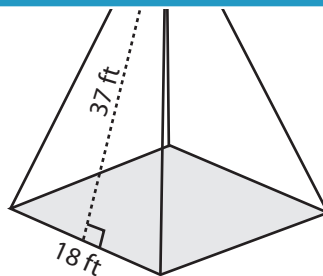


Surface Area = 4032 ft²

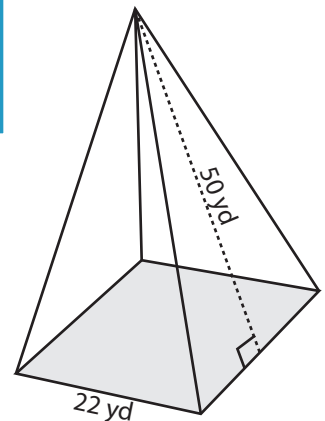
4)



Surface Area = 2400 in²



Surface Area = 1656 ft²

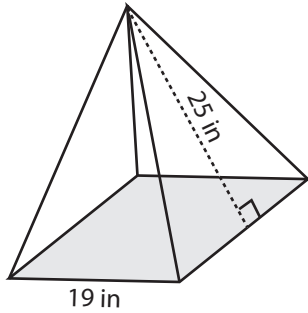


Surface Area = 2684 yd²

Surface Area - Square Pyramid

MS3

Example:



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

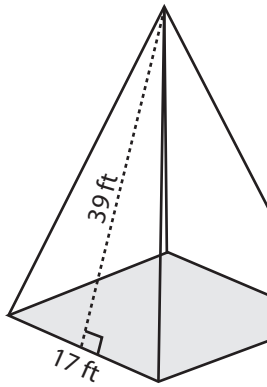
$$\text{Base area} = \text{side} \times \text{side} = 19 \times 19 = 361 \text{ in}^2$$

$$\text{Perimeter} = 4 \times \text{side} = 4 \times 19 = 76 \text{ in}$$

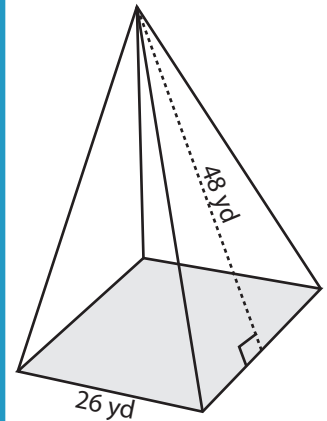
$$\begin{aligned} \text{Surface area} &= 361 + \frac{1}{2} \times 76 \times 25 \\ &= \mathbf{1311 \text{ in}^2} \end{aligned}$$

Find the surface area of each

1)

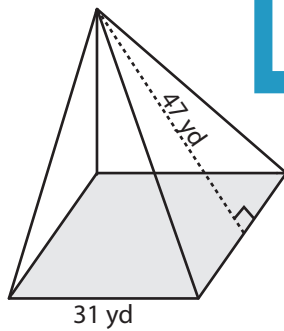


Surface Area = _____

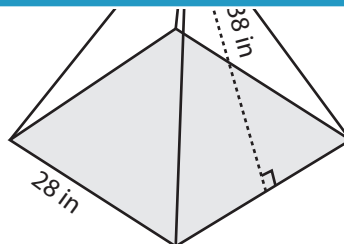


Surface Area = _____

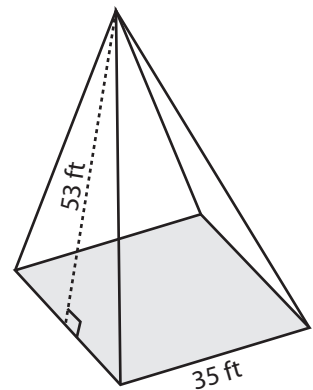
4)



Surface Area = _____



Surface Area = _____



Surface Area = _____

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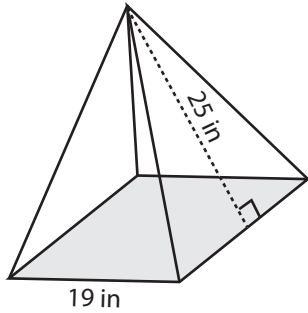
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Surface Area - Square Pyramid

MS3

Example:



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

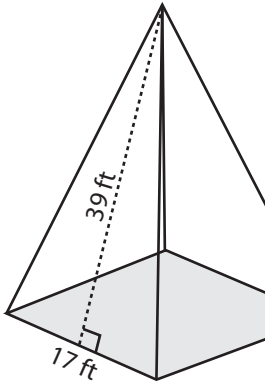
$$\text{Base area} = \text{side} \times \text{side} = 19 \times 19 = 361 \text{ in}^2$$

$$\text{Perimeter} = 4 \times \text{side} = 4 \times 19 = 76 \text{ in}$$

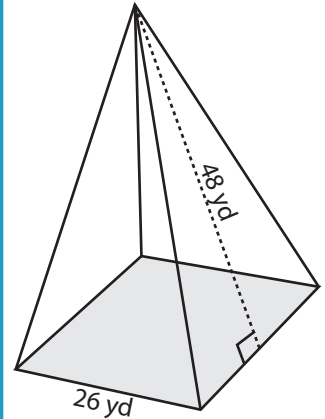
$$\begin{aligned} \text{Surface area} &= 361 + \frac{1}{2} \times 76 \times 25 \\ &= \mathbf{1311 \text{ in}^2} \end{aligned}$$

Find the surface area of each

1)

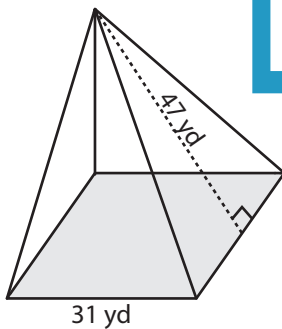


Surface Area = 1615 ft²

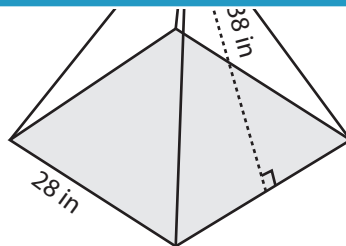


Surface Area = 3172 yd²

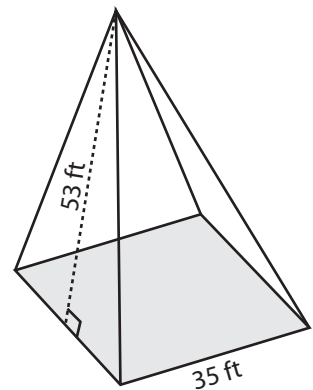
4)



Surface Area = 3875 yd²



Surface Area = 2912 in²



Surface Area = 4935 ft²

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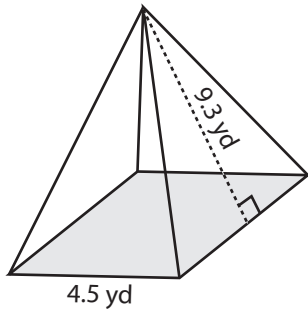
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Surface Area - Square Pyramid

DS1

Example:



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

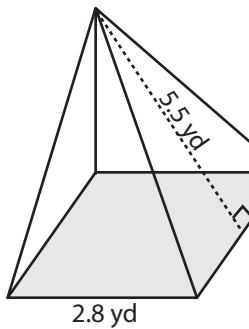
$$\text{Base area} = \text{side} \times \text{side} = 4.5 \times 4.5 = 20.25 \text{ yd}^2$$

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

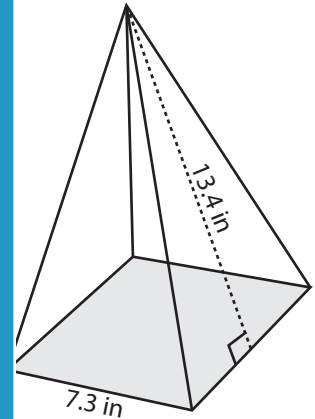
$$\begin{aligned} \text{Surface area} &= 20.25 + \frac{1}{2} \times 18 \times 9.3 \\ &= \mathbf{103.95 \text{ yd}^2} \end{aligned}$$

Find the surface area of each

1)

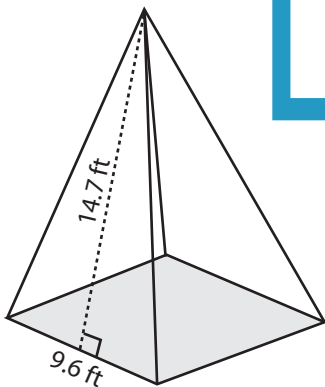


Surface Area = _____

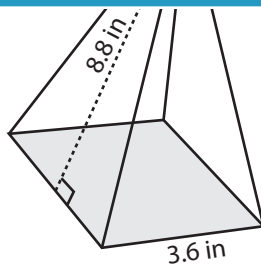


Surface Area = _____

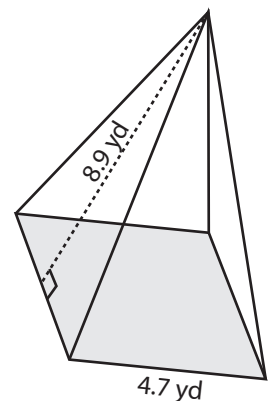
4)



Surface Area = _____



Surface Area = _____



Surface Area = _____

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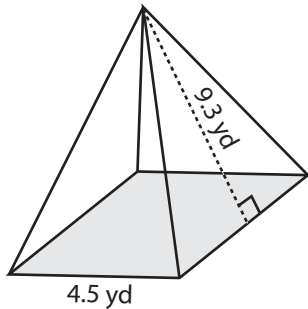
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Answer key**Surface Area - Square Pyramid**

DS1

Example:



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

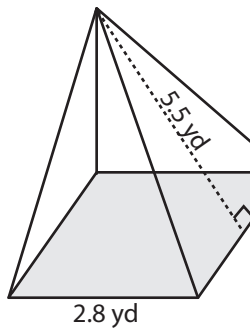
$$\text{Base area} = \text{side} \times \text{side} = 4.5 \times 4.5 = 20.25 \text{ yd}^2$$

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

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

Find the surface area of each

1)



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

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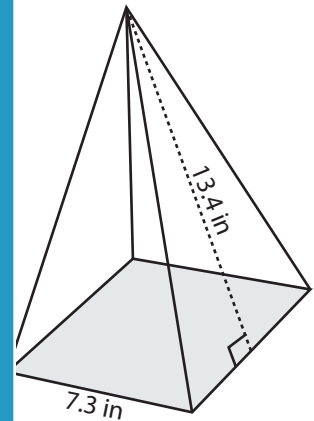
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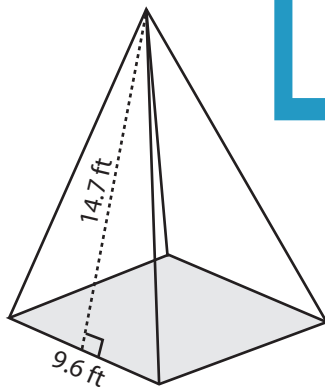
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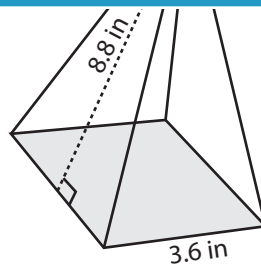


$$\text{Surface Area} = \mathbf{248.93 \text{ in}^2}$$

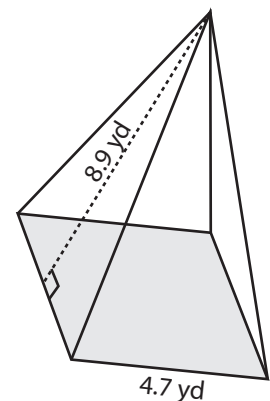
4)



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



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

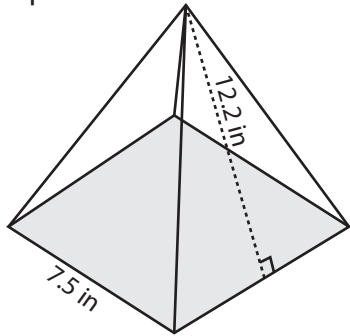


$$\text{Surface Area} = \mathbf{105.75 \text{ yd}^2}$$

Surface Area - Square Pyramid

DS2

Example:



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

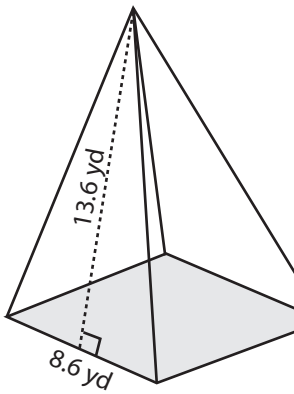
$$\text{Base area} = \text{side} \times \text{side} = 56.25 \text{ in}^2$$

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

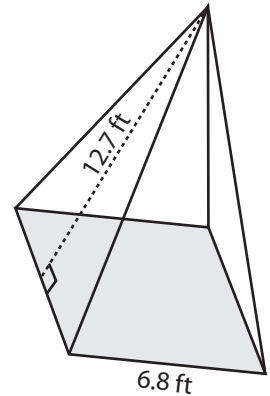
$$\begin{aligned} \text{Surface area} &= 56.25 + \frac{1}{2} \times 30 \times 12.2 \\ &= \mathbf{239.25 \text{ in}^2} \end{aligned}$$

Find the surface area of each

1)

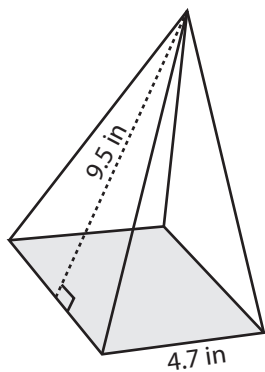


Surface Area = _____

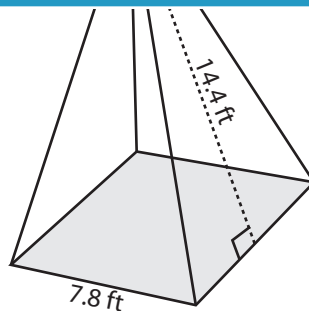


Surface Area = _____

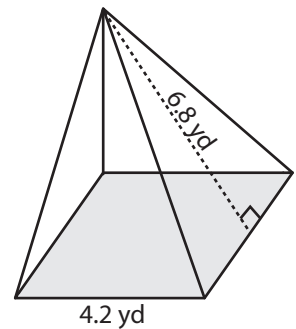
4)



Surface Area = _____



Surface Area = _____



Surface Area = _____

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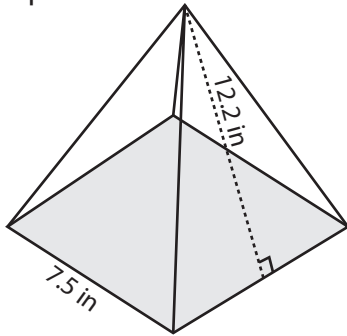
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Surface Area - Square Pyramid

DS2

Example:



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

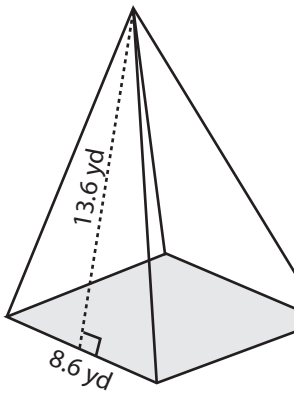
$$\text{Base area} = \text{side} \times \text{side} = 56.25 \text{ in}^2$$

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

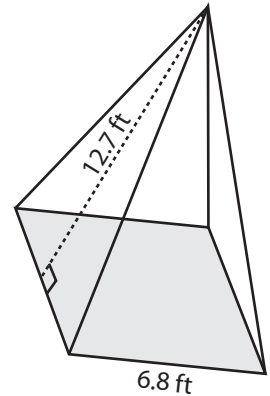
$$\begin{aligned} \text{Surface area} &= 56.25 + \frac{1}{2} \times 30 \times 12.2 \\ &= \mathbf{239.25 \text{ in}^2} \end{aligned}$$

Find the surface area of each

1)

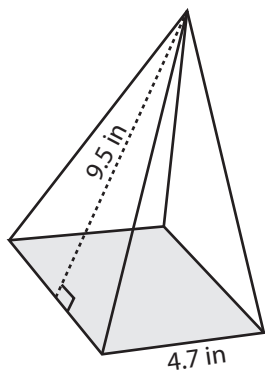


Surface Area = 307.88 yd²

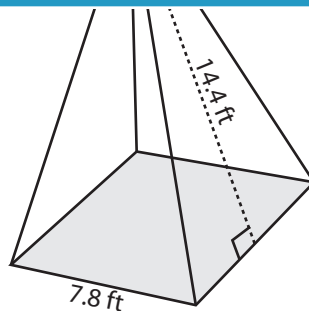


Surface Area = 218.96 ft²

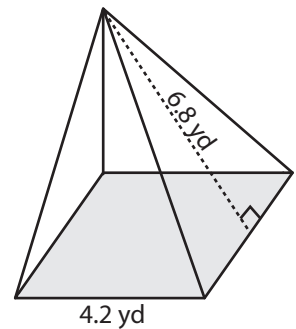
4)



Surface Area = 111.39 in²



Surface Area = 285.48 ft²



Surface Area = 74.76 yd²

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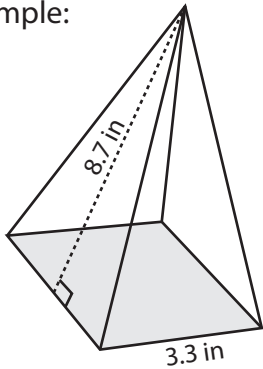
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Surface Area - Square Pyramid

DS3

Example:



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

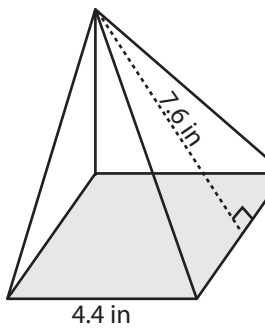
$$\text{Base area} = \text{side} \times \text{side} = 3.3 \times 3.3 = 10.89 \text{ in}^2$$

$$\text{Perimeter} = 4 \times \text{side} = 4 \times 3.3 = 13.2 \text{ in}$$

$$\begin{aligned} \text{Surface area} &= 10.89 + \frac{1}{2} \times 13.2 \times 8.7 \\ &= \mathbf{68.31 \text{ in}^2} \end{aligned}$$

Find the surface area of each

1)



Surface Area = _____

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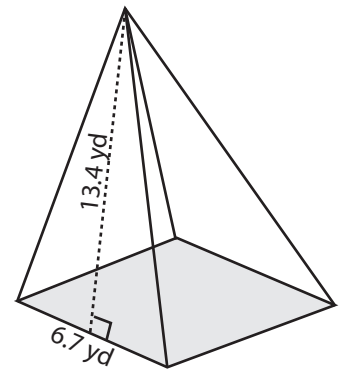
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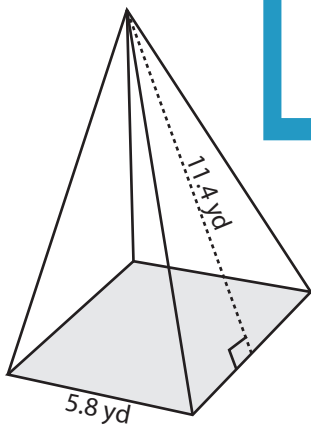
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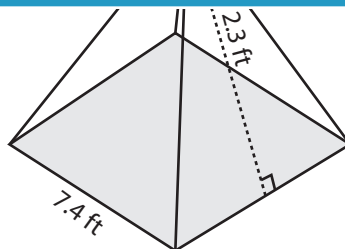


Surface Area = _____

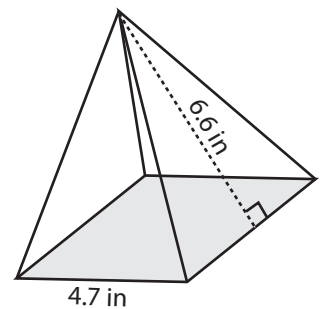
4)



Surface Area = _____



Surface Area = _____

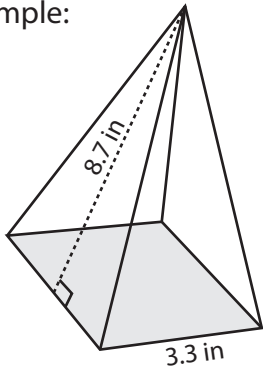


Surface Area = _____

Answer key**Surface Area - Square Pyramid**

DS3

Example:



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

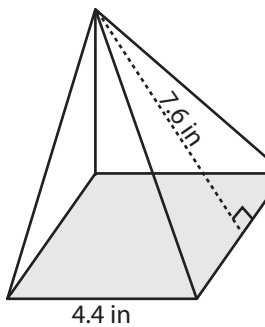
$$\text{Base area} = \text{side} \times \text{side} = 3.3 \times 3.3 = 10.89 \text{ in}^2$$

$$\text{Perimeter} = 4 \times \text{side} = 4 \times 3.3 = 13.2 \text{ in}$$

$$\begin{aligned} \text{Surface area} &= 10.89 + \frac{1}{2} \times 13.2 \times 8.7 \\ &= \mathbf{68.31 \text{ in}^2} \end{aligned}$$

Find the surface area of each

1)



$$\text{Surface Area} = \mathbf{86.24 \text{ in}^2}$$

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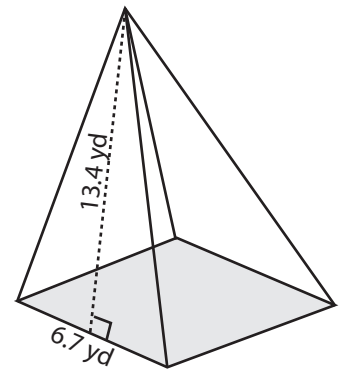
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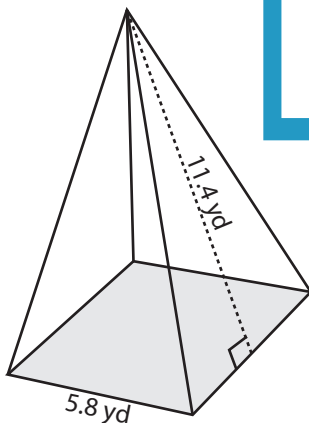
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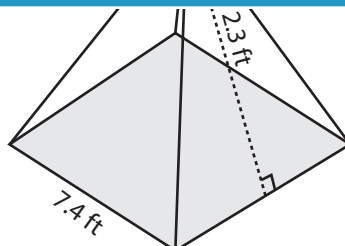


$$\text{Surface Area} = \mathbf{224.45 \text{ yd}^2}$$

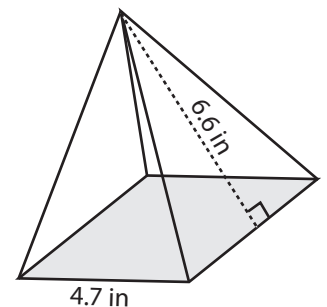
4)



$$\text{Surface Area} = \mathbf{165.88 \text{ yd}^2}$$



$$\text{Surface Area} = \mathbf{236.8 \text{ ft}^2}$$



$$\text{Surface Area} = \mathbf{84.13 \text{ in}^2}$$