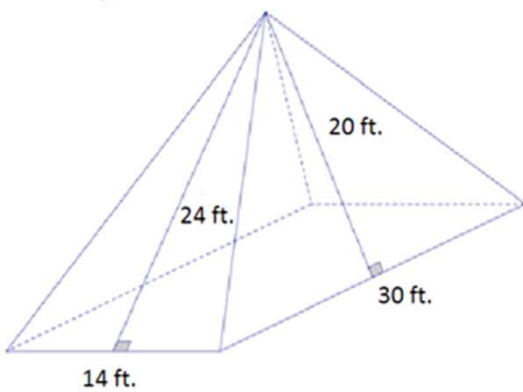
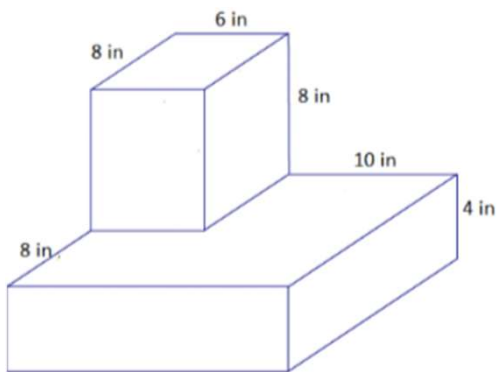


Surface Area Worksheets

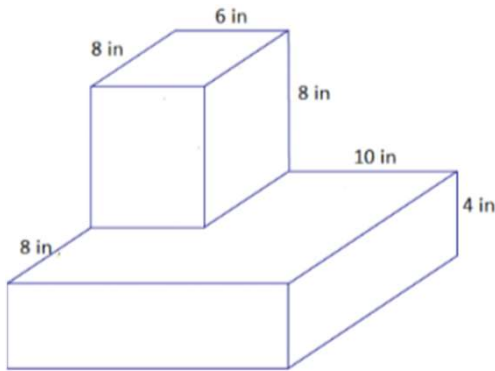
Determine the surface area of the right prisms.



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Surface Area Worksheets

Determine the surface area of the right prisms.



Surface area of top prism:

Area of top:

$$8 \text{ in.} \times 6 \text{ in.} = 48 \text{ in}^2$$

Area of front and back sides:

$$2(6 \text{ in.} \times 8 \text{ in.}) = 96 \text{ in}^2$$

Area of left and right sides:

$$2(8 \text{ in.} \times 8 \text{ in.}) = 128 \text{ in}^2$$

Total surface area of top prism:

$$48 \text{ in}^2 + 96 \text{ in}^2 + 128 \text{ in}^2 = 272 \text{ in}^2$$

Surface area of bottom prism:

Area of top: $16 \text{ in.} \times 16 \text{ in.} - 48 \text{ in}^2 = 208 \text{ in}^2$

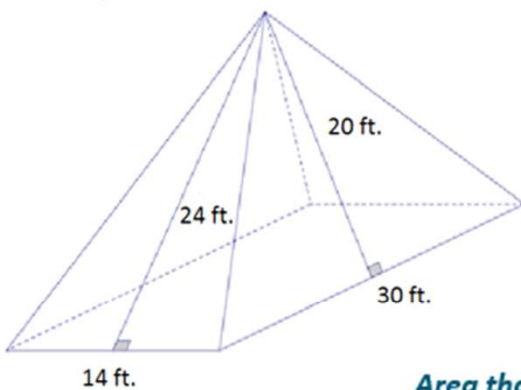
Area of bottom: $16 \text{ in.} \times 16 \text{ in.} = 256 \text{ in}^2$

Area of front and back sides: $2(16 \text{ in.} \times 4 \text{ in.}) = 128 \text{ in}^2$

Area of left and right sides: $2(16 \text{ in.} \times 4 \text{ in.}) = 128 \text{ in}^2$

Total surface area of bottom prism: $208 \text{ in}^2 + 256 \text{ in}^2 + 128 \text{ in}^2 + 128 \text{ in}^2 = 720 \text{ in}^2$

Surface area: $272 \text{ in}^2 + 720 \text{ in}^2 = 992 \text{ in}^2$



Area of the rectangle base: $14 \text{ ft.} \times 30 \text{ ft.} = 420 \text{ ft}^2$

Area of the triangular lateral sides:

Area of front and back:

$$\begin{aligned} & \frac{1}{2}bh \\ &= 2\left(\frac{1}{2}(14 \text{ ft.})(24 \text{ ft.})\right) \\ &= 336 \text{ ft}^2 \end{aligned}$$

Area that can be seen from left and right:

$$\begin{aligned} & \frac{1}{2}bh \\ &= 2\left(\frac{1}{2}(30 \text{ ft.})(20 \text{ ft.})\right) \\ &= 600 \text{ ft}^2 \end{aligned}$$

Surface area: $420 \text{ ft}^2 + 336 \text{ ft}^2 + 600 \text{ ft}^2 = 1,356 \text{ ft}^2$

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