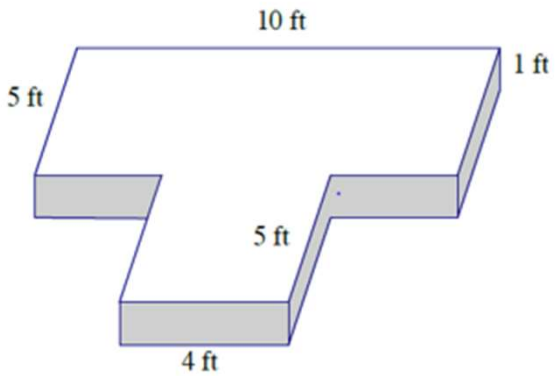
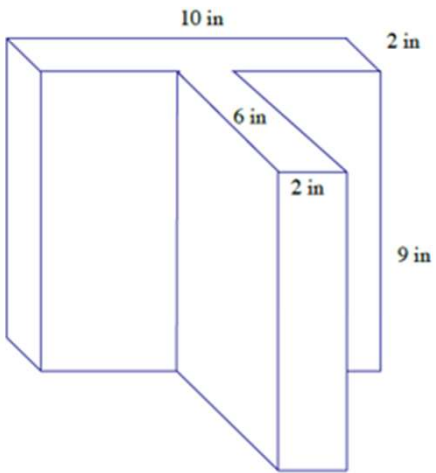


Surface Area Worksheets

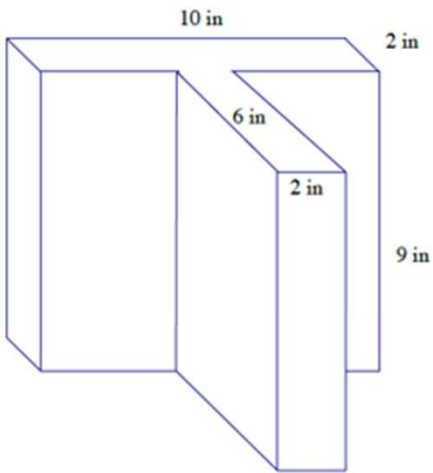
Determine the surface area of the right prisms.



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Surface Area Worksheets

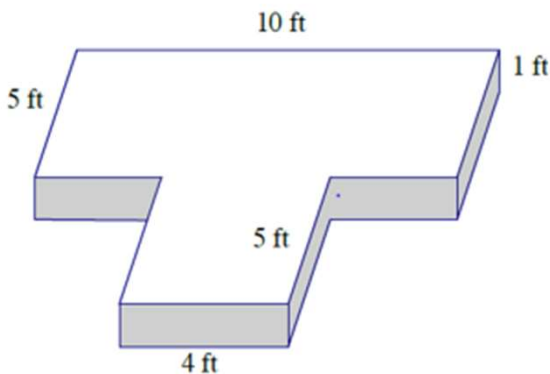
Determine the surface area of the right prisms.



$$\begin{aligned}\text{Area of top and bottom faces: } & 2(10 \text{ in.} \times 2 \text{ in.}) + 2(6 \text{ in.} \times 2 \text{ in.}) \\ & = 40 \text{ in}^2 + 24 \text{ in}^2 \\ & = 64 \text{ in}^2\end{aligned}$$

$$\begin{aligned}\text{Area of lateral faces: } & 2(9 \text{ in.} \times 2 \text{ in.}) + 2(6 \text{ in.} \times 9 \text{ in.}) + 2(9 \text{ in.} \times 10 \text{ in.}) \\ & = 36 \text{ in}^2 + 108 \text{ in}^2 + 180 \text{ in}^2 \\ & = 324 \text{ in}^2\end{aligned}$$

$$\text{Surface area: } 64 \text{ in}^2 + 324 \text{ in}^2 = 388 \text{ in}^2$$



$$\text{Area of front and back: } 2(10 \text{ ft.} \times 1 \text{ ft.}) = 20 \text{ ft}^2$$

$$\text{Area of sides: } 2(10 \text{ ft.} \times 1 \text{ ft.}) = 20 \text{ ft}^2$$

$$\begin{aligned}\text{Area of top and bottom: } & 2(10 \text{ ft.} \times 5 \text{ ft.}) + 2(4 \text{ ft.} \times 5 \text{ ft.}) \\ & = 100 \text{ ft}^2 + 40 \text{ ft}^2 \\ & = 140 \text{ ft}^2\end{aligned}$$

$$\begin{aligned}\text{Surface area: } & 20 \text{ ft}^2 + 20 \text{ ft}^2 + 140 \text{ ft}^2 \\ & = 180 \text{ ft}^2\end{aligned}$$

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