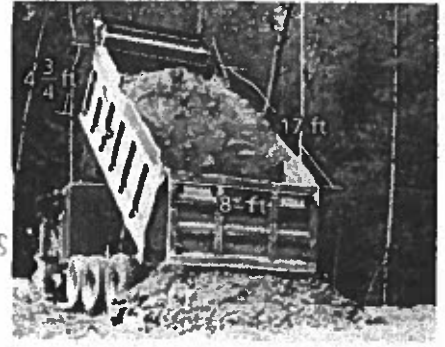


One cubic foot of dirt weighs about 70 pounds. How many pounds of dirt can the dump truck haul when it is full?



$$V = 8 \cdot 17 \cdot 4 \frac{3}{4}$$

$$V = \frac{28}{1} \cdot \frac{17}{1} \cdot \frac{19}{4}$$

$$V = 646 \text{ ft}^3$$

640 (70)
45,220 pounds

Write and solve an equation to find the height of the computer tower.



Volume = 1792 in.^3

$$V = l \times w \times h$$

$$1792 = 16 \cdot 7 \cdot h$$

$$\frac{1792}{112} = \frac{112 \cdot h}{112}$$

$h = 16 \text{ in}$

Write and solve an equation to find the missing dimension of the prism.

Volume = 72 in.^3



$$72 = 6 \cdot 2 \cdot L$$

$$\frac{72}{12} = \frac{12L}{12}$$

$L = 6 \text{ in}$

Volume = 1375 cm^3



$$1375 = 20 \cdot 5 \frac{1}{2} \cdot w$$

$$137 = \frac{10}{2} \cdot \frac{11}{2} \cdot w$$

$$\frac{137}{110} = \frac{110w}{110}$$

$w = 12.5 \text{ cm}$

$$\begin{array}{r} 12.5 \\ 110 \overline{) 1375.0} \\ \underline{110 } \\ 275 \\ \underline{220} \\ 550 \\ \underline{-550} \\ 0 \end{array}$$