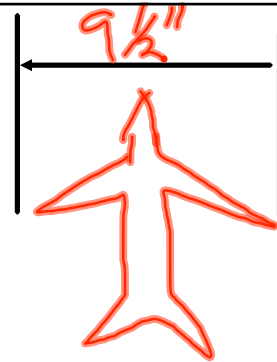


1:72



$$9.5 \times 72 = 684''$$

$$684 \div 12 = \textcircled{57'}$$

$$D = \frac{m}{V} = \frac{14.50\text{oz}}{9\text{in}^3} = \frac{1.610\text{oz}}{1\text{in}^3} =$$

$$1.61\text{oz/in}^3$$

ICE

$$16^3 = 4096 \text{ cm}^3$$

$$\frac{0.922 \text{ g}}{1 \text{ cm}^3} \times \frac{m}{4096 \text{ cm}^3}$$

$$m = 3777 \text{ g}$$

STEEL

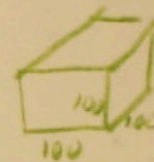
$$\frac{7.8 \text{ g}}{1 \text{ cm}^3} = \frac{m}{512 \text{ cm}^3}$$

$$m = 3994 \text{ g}$$

CHAP 4.3

$$4a) \frac{130 \text{ kg}}{1 \text{ m}^3} \times \frac{4}{4} = \frac{520 \text{ kg}}{4 \text{ m}^3} \approx 520 \text{ kg}$$

$$4b) \frac{130 \text{ kg}}{1 \text{ m}^3} = \frac{130,000 \text{ g}}{1,000,000 \text{ cm}^3} = 0.13 \text{ g}$$



$$6) D = \frac{m}{V} \quad m = 150 \text{ g} \quad V = 40 \text{ cm}^3$$

$$D = \frac{150 \text{ g}}{40 \text{ cm}^3} = 3 \frac{3}{4} \frac{\text{g}}{\text{cm}^3}$$

$$7) D = \frac{m}{V} \quad m = 416 \quad V = 29 \text{ in}^3$$

$$D = \frac{416}{29 \text{ in}^3} = 0.14 \text{ lb/in}^3$$