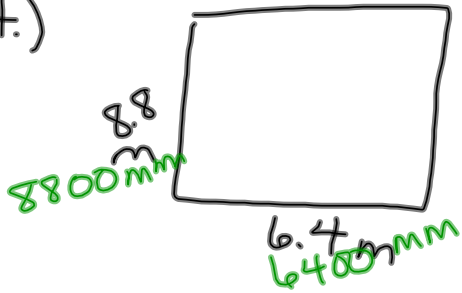


14.)



$$8.8 \text{ m} = \text{---} \text{ mm}$$

$$\frac{8.8 \cancel{\text{m}}}{1} \times \frac{1000 \text{ mm}}{1 \cancel{\text{m}}} =$$

Reduction
SF: 400



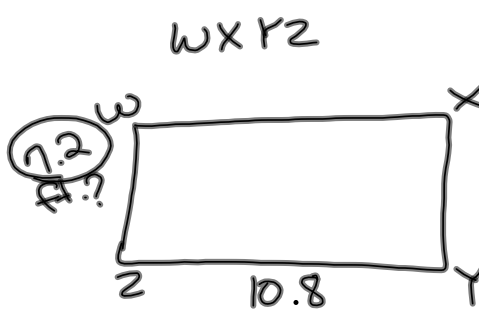
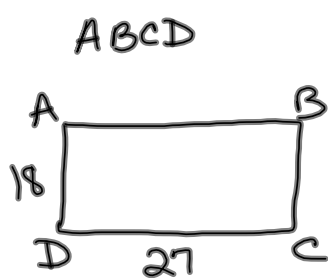
$$\frac{8800}{1} \times \frac{1}{400} = 22 \text{ mm}$$

$$\frac{6400}{1} \times \frac{1}{400} = 16 \text{ mm}$$

$$\frac{400}{1} \quad \left(\frac{1}{400} \right)$$

$$\left(\frac{1000 \text{ mm}}{1 \text{ m}} \right)$$

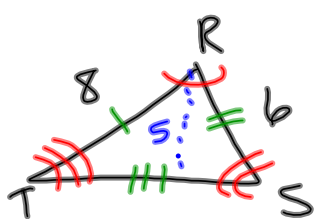
10.)



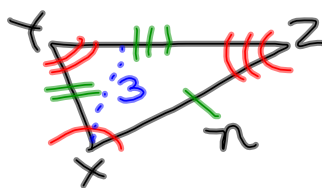
$$\frac{27}{10.8} = \frac{18}{?}$$

$$\frac{18}{27} = \frac{?}{10.8}$$

24.)



$\triangle RST$



$\triangle XYZ$

$$\frac{5}{8} = \frac{3}{2}$$

$$\frac{5}{3} = \frac{8}{2}$$

4.8 in

6-6
p. 298

$$\frac{\text{Scale}}{10\text{cm} = 5\text{m}}$$

12.) $\frac{10\text{ cm}}{5\text{ m}} = \frac{10\text{ cm}}{500\text{ cm}}$

$$5\text{ m} = \underline{500\text{ cm}}$$

$$\frac{100\text{ cm}}{1\text{ m}} \quad \frac{1\text{ m}}{100\text{ cm}}$$

Scale factor
must have the same
units

$$SF = \frac{1}{50} \text{ Reduction}$$

$$14.) \frac{5 \text{ ft}}{15 \text{ yd.}} = \frac{5 \text{ ft.}}{45 \text{ ft.}} = \frac{1}{9}$$

SF: $\frac{1}{9}$ Reduction

$$15 \text{ yd} = \text{--- ft.}$$

$$\frac{3 \text{ ft}}{1 \text{ yd}} \quad \frac{1 \text{ yd}}{3 \text{ ft.}}$$

$$16.) \frac{8 \text{ in}}{200 \text{ mi.}} = \frac{8 \text{ in}}{12,672,000 \text{ in.}} = \frac{1}{1,584,000} \text{ SF Reduction}$$

$$\frac{5280 \text{ ft}}{1 \text{ mile}} \cdot \frac{1 \text{ mi.}}{5280 \text{ ft}} \cdot \frac{12 \text{ in}}{1 \text{ ft}} \cdot \frac{1 \text{ ft}}{12 \text{ in.}}$$

$$\frac{200 \text{ mi.}}{1} \times \frac{5280 \text{ ft}}{1 \text{ mi.}} \times \frac{12 \text{ in}}{1 \text{ ft.}} = 12,672,000 \text{ in}$$

p. 821 6-6 # 1-6 (all)
p. 822 6-7 # 1-4 (all)