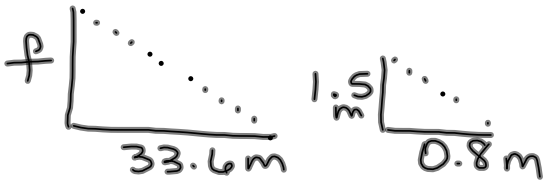
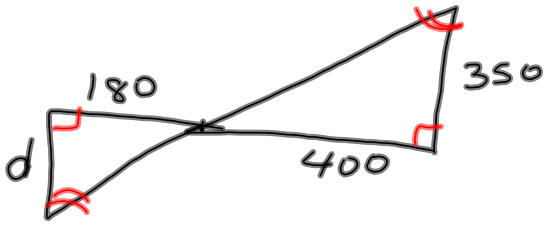
4-7 Indirect Measure

Using the properties of similar polygons and proportions and applying those properties to solve problems.



$$\frac{1.5}{0.8} = \frac{f}{33.6}$$

$$63\ m = f$$



$$\frac{350}{400} = \frac{d}{180}$$

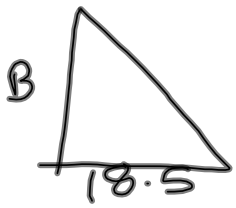
$$157.5\ m = d$$

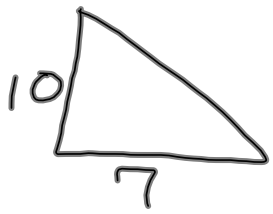
$$\frac{x}{56} = \frac{1.5}{0.6}$$

$$x = 140 \text{ m}$$

$\frac{150}{125} = \frac{144}{d}$ $\frac{18000}{150}$

$d = 120$ ft





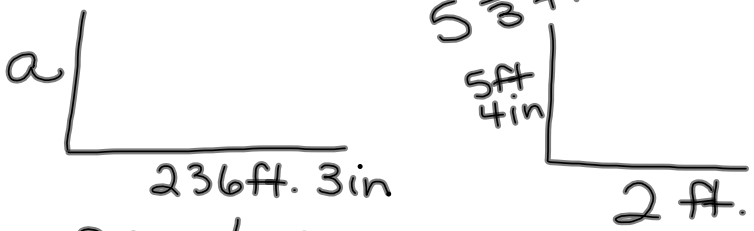
$\frac{10}{7} = \frac{B}{18.5}$ $\frac{185}{7}$

$B \approx 26.43$

26ft. 5in

$\frac{43}{100} = \frac{n}{12\text{ in}}$ 5 16 in

14.)



$236\frac{1}{4}$ ft.

$$\frac{a}{236\frac{1}{4}} = \frac{5\frac{1}{3}}{2\text{ ft.}}$$

$a = 630$ ft.

16) $\triangle ABC \sim \triangle CDE$

17) $\frac{\overline{AB}}{\overline{BC}} = \frac{\overline{ED}}{\overline{DC}}$