

① $\frac{8}{10} = \frac{x}{25}$ $x = 20$ wizzles

② $\frac{w 6.4}{14.2m} = \frac{H 10.2}{x}$ $x = 22.6 m$

③ $\frac{100 nm}{115 m} = \frac{410 nm}{x}$ $x = 471.5$ statute miles

④ $\frac{5}{7} \approx .714$ $\frac{8}{12} = .667$ $\frac{11}{14} = .786$ $\frac{9}{12} = .75$ $\frac{10}{13} = .769$
 9×12 is closest!

⑤ $\frac{11}{300} = \frac{x}{40,000}$ $x = 1467$ bad wingles

⑥ $\frac{25}{15} = \frac{x}{120}$ $x = 200$ mins

⑦ $\frac{65}{700} = \frac{x}{200}$ $x = 130$ gm copper
70 gm tin

⑧ $\frac{6.4}{16}$ scale factor = $\frac{16}{64} = 2.5$ $165 ft \times 100 ft$
 $74 \times 2.5 = 29.6$ $40 \times 2.5 = 100$

⑨ $\frac{14.42}{549824} = \frac{17.78}{x}$ $x = 727,259$ pixels

⑩ $\frac{1}{4} + \frac{1}{5} = \frac{1}{t} \Rightarrow \frac{1}{t} = \frac{5}{20} + \frac{4}{20} = \frac{9}{20}$
 $\Rightarrow t = 20$
 $t = \frac{20}{9} = 2.22$ hours