

11.3

(5) Yes. The angles are all congruent and the sides are proportional.

(6) No. $\frac{9}{6} \neq \frac{7}{4}$

(7) $\frac{10}{x} = \frac{4}{1}$

$$\frac{20}{4} \neq \frac{4x}{4}$$

(8) $\frac{d}{18} = \frac{16}{9}$

$$\frac{288}{9} \neq \frac{9d}{9}$$

(9) wide $\frac{35}{2625} = \frac{8}{x}$
high

$$\frac{35x}{35} \neq \frac{210}{35}$$

(10) $\frac{30}{x} = \frac{90}{60}$
 $\frac{90x}{90} \neq \frac{1800}{90}$
 $x \neq 20$

(11) $\frac{24}{y} = \frac{42}{21}$
 $\frac{504}{42} \neq \frac{42x}{42}$
 $12 \neq x$

(12) $\frac{8}{18} = \frac{12}{15}$
 $\frac{216}{15} \neq \frac{15y}{15}$
 $14.4 \neq y$

(14) $\frac{f}{8} = \frac{3}{5}$ $g=3$
 $\frac{24}{5} = \frac{5f}{5}$
 $4.8 = f$
 $4.8 = h$

$$\frac{x}{10} = \frac{12}{15}$$

$$\frac{15x}{15} \neq \frac{120}{15}$$

$$x \neq 8$$