

Name: \_\_\_\_\_



# Solving Simple Proportions

**Part I:** Determine whether or not each pair of ratios is a proportion.

1.)  $\frac{1}{3}$  and  $\frac{8}{24}$

5.)  $\frac{4}{2}$  and  $\frac{19}{9}$

2.)  $\frac{4}{5}$  and  $\frac{9}{10}$

6.)  $\frac{5}{6}$  and  $\frac{15}{18}$

3.)  $\frac{18}{41}$  and  $\frac{3}{7}$

7.)  $\frac{8}{6}$  and  $\frac{4}{3}$

4.)  $\frac{3}{2}$  and  $\frac{27}{18}$

8.)  $\frac{24}{32}$  and  $\frac{27}{36}$

**Part II:** Solve for x in each proportion.

9.)  $\frac{1}{2} = \frac{x}{50}$

13.)  $\frac{3}{5} = \frac{x}{60}$

10.)  $\frac{5}{2} = \frac{10}{x}$

14.)  $\frac{10}{x} = \frac{13}{26}$

11.)  $\frac{x}{3} = \frac{22}{33}$

15.)  $\frac{x}{7} = \frac{48}{56}$

12.)  $\frac{1}{x} = \frac{7}{63}$

16.)  $\frac{5}{x} = \frac{10}{22}$

## ANSWER KEY

1.)  $\frac{1}{3}$  and  $\frac{8}{24}$  **yes**

5.)  $\frac{4}{2}$  and  $\frac{19}{9}$  **no**

2.)  $\frac{4}{5}$  and  $\frac{9}{10}$  **no**

6.)  $\frac{5}{6}$  and  $\frac{15}{18}$  **yes**

3.)  $\frac{18}{41}$  and  $\frac{3}{7}$  **no**

7.)  $\frac{8}{6}$  and  $\frac{4}{3}$  **yes**

4.)  $\frac{3}{2}$  and  $\frac{27}{18}$  **yes**

8.)  $\frac{24}{32}$  and  $\frac{27}{36}$  **yes**

Part II: Solve for x in each proportion.

9.)  $\frac{1}{2} = \frac{x}{50}$  **x=25**

13.)  $\frac{3}{5} = \frac{x}{60}$  **x=24**

10.)  $\frac{5}{2} = \frac{10}{x}$  **x=4**

14.)  $\frac{10}{x} = \frac{13}{26}$  **x=20**

11.)  $\frac{x}{3} = \frac{22}{33}$  **x=2**

15.)  $\frac{x}{7} = \frac{48}{56}$  **x=6**

12.)  $\frac{1}{x} = \frac{7}{63}$  **x=9**

16.)  $\frac{5}{x} = \frac{10}{22}$  **x=11**