

Name: _____



Solving Simple Proportions

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

1.) $\frac{9}{10}$ and $\frac{27}{30}$

5.) $\frac{4}{9}$ and $\frac{54}{126}$

2.) $\frac{75}{100}$ and $\frac{3}{4}$

6.) $\frac{6}{7}$ and $\frac{36}{49}$

3.) $\frac{2}{9}$ and $\frac{3}{16}$

7.) $\frac{1}{4}$ and $\frac{16}{64}$

4.) $\frac{7}{2}$ and $\frac{35}{10}$

8.) $\frac{11}{12}$ and $\frac{55}{60}$

Part II: Solve for x in each proportion.

9.) $\frac{4}{5} = \frac{16}{x}$

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

10.) $\frac{x}{6} = \frac{4}{24}$

14.) $\frac{25}{100} = \frac{x}{40}$

11.) $\frac{3}{x} = \frac{42}{70}$

15.) $\frac{2}{5} = \frac{32}{x}$

12.) $\frac{7}{x} = \frac{49}{56}$

16.) $\frac{x}{3} = \frac{56}{24}$

ANSWER KEY

1.) $\frac{9}{10}$ and $\frac{27}{30}$ **yes**

5.) $\frac{4}{9}$ and $\frac{54}{126}$ **no**

2.) $\frac{75}{100}$ and $\frac{3}{4}$ **yes**

6.) $\frac{6}{7}$ and $\frac{36}{49}$ **no**

3.) $\frac{2}{9}$ and $\frac{3}{16}$ **no**

7.) $\frac{1}{4}$ and $\frac{16}{64}$ **yes**

4.) $\frac{7}{2}$ and $\frac{35}{10}$ **yes**

8.) $\frac{11}{12}$ and $\frac{55}{60}$ **yes**

Part II: Solve for x in each proportion.

9.) $\frac{4}{5} = \frac{16}{x}$ **x=20**

13.) $\frac{x}{13} = \frac{14}{26}$ **x=7**

10.) $\frac{x}{6} = \frac{4}{24}$ **x=1**

14.) $\frac{25}{100} = \frac{x}{40}$ **x=10**

11.) $\frac{3}{x} = \frac{42}{70}$ **x=5**

15.) $\frac{2}{5} = \frac{32}{x}$ **x=80**

12.) $\frac{7}{x} = \frac{49}{56}$ **x=8**

16.) $\frac{x}{3} = \frac{56}{24}$ **x=8**