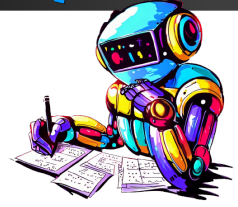


Name: \_\_\_\_\_



# Solving Simple Proportions

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

1.)  $\frac{7}{8}$  and  $\frac{21}{32}$

5.)  $\frac{3}{8}$  and  $\frac{54}{144}$

2.)  $\frac{12}{10}$  and  $\frac{6}{5}$

6.)  $\frac{6}{5}$  and  $\frac{36}{25}$

3.)  $\frac{36}{40}$  and  $\frac{14}{18}$

7.)  $\frac{7}{9}$  and  $\frac{63}{81}$

4.)  $\frac{5}{2}$  and  $\frac{25}{20}$

8.)  $\frac{60}{75}$  and  $\frac{4}{5}$

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

9.)  $\frac{2}{3} = \frac{14}{x}$

13.)  $\frac{2}{5} = \frac{x}{100}$

10.)  $\frac{6}{5} = \frac{x}{15}$

14.)  $\frac{1}{x} = \frac{11}{110}$

11.)  $\frac{1}{3} = \frac{x}{51}$

15.)  $\frac{3}{5} = \frac{21}{x}$

12.)  $\frac{2}{x} = \frac{12}{54}$

16.)  $\frac{x}{11} = \frac{28}{44}$

## ANSWER KEY

1.)  $\frac{7}{8}$  and  $\frac{21}{32}$  **no**

5.)  $\frac{3}{8}$  and  $\frac{54}{144}$  **yes**

2.)  $\frac{12}{10}$  and  $\frac{6}{5}$  **yes**

6.)  $\frac{6}{5}$  and  $\frac{36}{25}$  **no**

3.)  $\frac{36}{40}$  and  $\frac{14}{18}$  **no**

7.)  $\frac{7}{9}$  and  $\frac{63}{81}$  **yes**

4.)  $\frac{5}{2}$  and  $\frac{25}{20}$  **no**

8.)  $\frac{60}{75}$  and  $\frac{4}{5}$  **yes**

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

9.)  $\frac{2}{3} = \frac{14}{x}$  **x=21**

13.)  $\frac{2}{5} = \frac{x}{100}$  **x=40**

10.)  $\frac{6}{5} = \frac{x}{15}$  **x=18**

14.)  $\frac{1}{x} = \frac{11}{110}$  **x=20**

11.)  $\frac{1}{3} = \frac{x}{51}$  **x=17**

15.)  $\frac{3}{5} = \frac{21}{x}$  **x=35**

12.)  $\frac{2}{x} = \frac{12}{54}$  **x=9**

16.)  $\frac{x}{11} = \frac{28}{44}$  **x=7**