

## Solving Proportions Worksheet

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

Date: \_\_\_\_\_ Section: \_\_\_\_\_

Each problem must to be set up this way:

- |   |                                     |
|---|-------------------------------------|
| 1. Write the proportion.                    | $\frac{8}{3} = \frac{192}{n}$       |
| 2. Write the cross products                 | $8 * n = 192 * 3$                   |
| 3. Multiply                                 | $8n = 576$                          |
| 4. Undo multiplication by using<br>division | $8n = 576$<br>$\div 8 \quad \div 8$ |
| 5. Divide                                   | $n = 72$                            |

Solve each proportion. Be sure to set it up the correct way and show all work.

1.  $\frac{4}{9} = \frac{10}{x}$

2.  $\frac{5}{2} = \frac{6}{x}$

3.  $\frac{5}{2} = \frac{2}{x}$

4.  $\frac{21}{27} = \frac{x}{18}$

5.  $\frac{15}{21} = \frac{20}{y}$

6.  $\frac{26}{b} = \frac{39}{9}$

7.  $\frac{h}{108} = \frac{7}{18}$

8.  $\frac{45}{792} = \frac{70}{w}$

9.  $\frac{16}{120} = \frac{j}{15}$

10.  $\frac{350}{p} = \frac{1050}{60}$

11.  $\frac{q}{1134} = \frac{27}{729}$

12.  $\frac{40}{65} = \frac{z}{104}$