

Solving Proportions Worksheet

Name: _____

Date: _____ Block: _____

Each problem must to be set up this way:

1. Write the proportion.

$$\frac{8}{3} = \frac{192}{n}$$

2. Write the cross products

$$8 \cdot n = 192 \cdot 3$$

3. Multiply

$$8n = 576$$

4. Undo multiplication by using
division

$$\frac{8n}{8} = \frac{576}{8}$$

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

For each word problem, write and then solve the proportion to find the answer. Be sure to set it up the correct way and show all work.

7. The Bairdtown football team outscored its opponents 5:2 last season. If their opponents scored 38 points, how many points did Bairdtown score?

8. In the local coed softball league, the male to female ratio is 6:16. If there are 160 players in the league, how many are female? How many are male?