Solving Proportions Worksheet

Name: _____

Date: _____ Section: _____

Each problem must to be set up this way:

1. Write the proportion. $\dfrac{8}{3} = \dfrac{192}{n}$

2. Write the cross products 8 * n = 192 * 3
3. Multiply 8n = 576
4. Undo multiplication by using 8n = 576
   division ÷ 8   ÷ 8
5. Divide n = 72

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

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

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

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

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

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

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

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

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

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

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

11. $\dfrac{g}{1134} = \dfrac{27}{729}$

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