

Name: _____

“8.6” Proportion Worksheet

Solve the proportion. State restrictions on x .

1. $\frac{27}{x} = \frac{9}{4}$

2. $\frac{x}{64} = \frac{-9}{16}$

3. $\frac{x-4}{10} = \frac{3}{5}$

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

5. $\frac{x+7}{-4} = \frac{x-12}{6}$

6. $\frac{30}{x} = \frac{10}{80}$

7. $\frac{x+2}{3} = \frac{4}{5}$

8. $\frac{5}{x+7} = \frac{3}{x+3}$

9. $\frac{-7}{5} = \frac{91}{x}$

10. $\frac{3}{x} = \frac{15}{25}$

Solve each proportion for x .

$$11. \quad \frac{a-b}{c} = \frac{x}{d}$$

$$12. \quad \frac{2}{x+1} = \frac{3}{2x+3}$$

$$13. \quad \frac{x}{a} = \frac{b}{c}$$

$$14. \quad \frac{a}{x} = \frac{b}{c}$$

$$15. \quad \frac{a+b}{c} = \frac{x}{d}$$

$$16. \quad \frac{x+1}{x} = \frac{x}{x+2}$$

$$17. \quad \frac{x+4}{3} = \frac{x+4}{x}$$

$$18. \quad \frac{5a+2}{2a} = \frac{18}{a+4}$$

$$19. \quad \frac{-2x}{5} = \frac{2}{x+6}$$

$$20. \quad \frac{x-1}{x+1} = \frac{2}{3x}$$