

Equations Worksheet 22

For exercises 1-20, solve each proportion. Remember to show your work.

1. $\frac{-3}{-4} = \frac{x}{8}$

2. $\frac{-2}{3} = \frac{8}{x}$

3. $\frac{-4}{w} = \frac{-2}{10}$

4. $\frac{15}{3} = \frac{v}{1}$

5. $\frac{w+2}{5} = \frac{7}{5}$

6. $\frac{3}{x} = \frac{-5}{15}$

7. $\frac{2}{x} = \frac{-8}{12}$

8. $\frac{B}{6} = \frac{-2}{3}$

9. $\frac{6}{x} = \frac{-2}{7}$

10. $\frac{y}{2} = \frac{3}{12}$

11. $\frac{y}{12} = \frac{-2}{3}$

12. $\frac{x}{3} = \frac{9}{4}$

13. $\frac{10}{5} = \frac{-m}{15}$

14. $\frac{B}{B+1} = \frac{3}{2}$

15. $\frac{A-3}{A} = \frac{4}{5}$

16. $\frac{8}{6} = \frac{A+4}{A-1}$

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

18. $\frac{R+7}{-4} = \frac{R-12}{6}$

19. $\frac{Y+4}{Y-1} = \frac{4}{3}$

20. $\frac{x-7}{6} = \frac{x+3}{7}$

For exercises 21-25, first write a proportion that represents the situation. Then solve the proportion, showing your work.

21. The ratio of boys to girls in the class is 2 to 3. If there are 15 girls in the class, how many boys are in the class?

22. The ratio of football fans to futbol (soccer) fans in the class is 4 to 7. If there are 16 football fans in the class, how many futbol fans are there?

23. The ratio of dogs to cats is 3 to 1. If there are 15 dogs, how many cats are there?

24. The ratio of tables to chairs is 2 to 8. If there are 40 chairs, how many tables are there?

25. The ratio of the US population to the world population is 1 to 22. If there are 300 million people in the US, how many people are there in the world?