

Practice

Solving Equations by Multiplying or Dividing

Solve each equation. Check your solution. *SHOW WORK FOR CREDIT.*

1. $8y = 56$

2. $\frac{w}{4} = 12$

3. $-3u = -12$

4. $\frac{r}{-5} = 15$

5. $9d = -9$

6. $-8f = 0$

7. $\frac{n}{-1} = 31$

8. $\frac{v}{14} = -7$

9. $-1b = 24$

10. $-12h = -72$

11. $\frac{r}{24} = -5$

12. $\frac{p}{-6} = -3$

13. $-15x = 90$

14. $-4g = -20$

15. $\frac{z}{20} = -1$

16. $11t = 0$

17. $23g = -92$

18. $-7d = -28$

19. $\frac{m}{-15} = 7$

20. $9k = -9$

21. $6w = 0$

22. $-4r = 120$

23. $\frac{u}{12} = 1$

24. $-11q = -99$

25. $16y = -192$

26. $\frac{n}{-8} = 0$

27. $-7j = 84$

28. $-21p = -231$

Write and solve an equation for each sentence.

29. The product of a number and -6 is -54 .

30. The quotient of a number and 6 is -14 .

31. **CLASS REPORTS** Each student needs 12 minutes to give a report. A class period is 48 minutes long. Write and solve an equation to determine the number of students who could give a report in one class period.

BONUS

* 32. **COOKING** One pound of ground beef makes four hamburger patties. Write and solve an equation to determine how many pounds of beef are needed to make 36 hamburgers.

Name: _____

Date: _____

1. Helen is planning to go to the grocery store and buy eggs for her bagel shop. If each carton of eggs contains 12 eggs, how many cartons must she buy to obtain 450 eggs? Write the equation and solve.
2. The total distance around a baseball diamond is 360 feet. What is the distance from third base to home plate? Write an equation and solve.
3. Your bill for a car repair is \$166.50. The mechanic worked on your car for 1.5 hours. What is the hourly charge for labor? Set up the equation and solve.
4. Negative four times a number is -112 . What is the number. Set up the equation and solve.
5. The quotient of a number and 44 is 12. Write the equation and solve the equation.
6. Three-eighths of a number is 90. Write the equation and solve the equation.