

3.1 Multiply and Divide Integers

PRACTICE

Perform the indicated operation.

$$1. 3 \times 5 = 15$$

$$2. 36 \div (-12) = -3$$

$$3. -40 \div (-10) = 4$$

$$4. -6 \times 0 = 0$$

$$5. (6)(-10) = -60$$

$$6. -55 \div 5 = -11$$

$$7. \frac{63}{9} = 7$$

$$8. -6 \div (-1) = 6$$

$$9. (-4)(-10) = 40$$

$$10. 10 \times (-3) = -30$$

$$11. \frac{-24}{12} = -2$$

$$12. 33 \div (-3) = -11$$

$$13. 8 \times (-2) = -16$$

$$14. -21 \div (-3) = 7$$

$$15. 9 \times (-4) = -36$$

$$16. 3 \cdot 8 = 24$$

$$17. 10(-4) = -40$$

$$18. -5 \times (-9) = 45$$

$$19. \frac{-40}{-5} = 8$$

$$20. 1 \div (-1) = -1$$

$$21. 12 \div (-3) = -4$$

Perform the indicated operations.

$$22. 3 \times 5 \times 2 =$$

$$\begin{array}{l} \checkmark \\ 15 \cdot 2 \\ \checkmark \\ \textcircled{30} \end{array}$$

$$23. 4(-2)(3) =$$

$$\begin{array}{l} \checkmark \\ -8 \cdot 3 \\ \checkmark \\ \textcircled{-24} \end{array}$$

$$24. \frac{4(-3)}{-2} = \frac{-12}{-2} = 6$$

$$25. 16 \div (-2) \div (4) =$$

$$\begin{array}{l} \checkmark \\ -8 \div 4 \\ \checkmark \\ \textcircled{-2} \end{array}$$

$$26. (-6)(-9)(0) =$$

$$\begin{array}{l} \checkmark \\ 54 \cdot 0 \\ \checkmark \\ \textcircled{0} \end{array}$$

$$27. (-5)(-2)(-6) =$$

$$\begin{array}{l} \checkmark \\ 10(-6) \\ \checkmark \\ \textcircled{-60} \end{array}$$

Write a multiplication expression for each situation. Answer the question. Label your answer!

28. Karla borrowed \$5 each from 4 different friends. How much money does Karla owe her friends altogether?

Expression: $5(4)$

Answer: 20 dollars

29. The temperature increased 2° per hour for six hours. How many degrees did the temperature raise after six hours?

Expression: $2(6)$

Answer: 12°

30. Jim was deep sea diving last week. He descends 3 feet every minute. How many feet will he descend in 10 minutes?

Expression: $(-3)(10)$

Answer: -30 feet

Write a division expression for each situation. Answer the question. Label your answer!

31. Keith borrowed a total of \$30 by borrowing the same amount of money from 5 different friends. How much money does Keith owe each friend?

Expression: $\frac{30}{5}$

Answer: 6 dollars

32. The temperature fell 12° over 4 hours. What was the average change in temperature per hour?

Expression: $\frac{-12}{4}$

Answer: -3°

33. Max lost 24 pounds in 8 weeks on his new weight-loss plan. What was his average change in weight per week?

Expression: $\frac{-24}{8}$

Answer: -3 pounds

34. Juan borrowed \$4 a day until he had borrowed a total of \$88. For how many days did he borrow money?

Expression: $\frac{-88}{4}$

Answer: -22 dollars