

Practice 1-9 Multiplying and Dividing Integers

Use repeated addition, patterns, or rules to find each product or quotient.

$$\begin{array}{r} 23 \\ 16 \\ \hline 138 \\ 230 \\ \hline 368 \end{array}$$

1. $23 \cdot 16$

368

2. $8 \cdot 7(-6)$

$$\begin{array}{r} 356 \\ -336 \\ \hline 20 \end{array}$$

3. $-17 \cdot 3$

$$\begin{array}{r} 217 \\ -51 \\ \hline 51 \end{array}$$

4. $-24 \div 4$

-6

5. $-65 \div 5$

-13

6. $117 \div (-1)$

-117

7. $-30 \div (-6)$

5

8. $-21 \div (-3)$

7

9. $63 \div (-21)$

-3

10. $5(-1)(-9)$

$(-5)(-9) = 45$

11. $-6(-3) \cdot 2$

$18 \cdot 2 = 36$

12. $-3 \cdot 7(-2)$

$-21 \cdot (-2) = 42$

13. $\frac{1512}{-42}$

-36

14. $\frac{-4875}{-65}$

75

15. $\frac{-15(-3)}{-9}$

$\frac{45}{-9} = -5$

Compare. Use $>$, $<$, or $=$ to complete each statement.

16. $-7(5) < -6 \cdot (-6)$

17. $-20 \cdot (-5) = 10 \cdot 1 - 10$

18. $3(-6) = -3(6)$

19. $121 \div (-11) < -45 \div (-6)$

20. $-40 \div 8 = 40 \div (-8)$

21. $-54 \div 9 > 21 \div (-3)$

For each group, find the average.

22. temperatures: $6^\circ, -15^\circ, -24^\circ, 3^\circ, -25^\circ$ $-54 \div 6 = -9$

23. bank balances: $\$52, -\$7, \$20, -\$63, -\$82$ -16 $72 \div 5 = 14.4$

24. stock price changes: $\$6, -\$6, -\$9, \$1, \$3$ -1 $-15 \div 10 = -1.5$

25. golf scores: $-2, 0, 3, -2, -3, 1, -4$ -1 $-11 \div 4 = -2.75$

26. elevations (ft): $-120, 168, -60, -42, -36$ -18 $-258 \div 14.3 = -18.04$

Write a multiplication or division sentence to answer the question.

27. The temperature dropped 4° each hour for 3 hours. What was the total change in temperature?
 $-4 \cdot 3 = -12^\circ$

$$\begin{array}{r} 36 \\ -42 \overline{)1512} \\ \underline{126} \\ 252 \\ \underline{252} \\ 0 \end{array}$$

$$\begin{array}{r} 75 \\ 265 \overline{)4875} \\ \underline{455} \\ 325 \\ \underline{325} \\ 0 \end{array}$$