

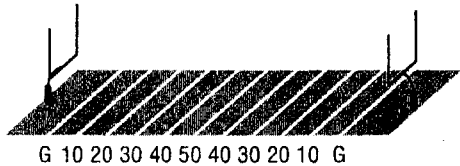
1-6 Word Problem Practice

Multiplying and Dividing Integers

1. STOCK MARKET The price of a stock decreased \$2 per day for four consecutive days. What was the total change in value of the stock over the four-day period?

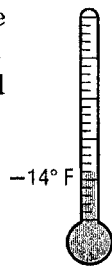
2. EVAPORATION The height of the water in a tank decreases 3 inches each week due to evaporation. What is the change in the height of the water over a five-week period due to evaporation?

3. FOOTBALL A football team lost 9 yards on each of three consecutive plays. What was the team's total change in position for the three plays?



4. HIKING A group of hikers is descending a mountain at a rate of 400 feet per hour. What is the change in the elevation of the hikers after 6 hours?

5. WEATHER On a certain day, the temperature changed at a rate of -2°F per hour. How long did it take for the change in temperature to be -14°F ?



6. GEOLOGY The length of an island is changing at the rate of -17 inches per year. How long will it take for the change in the length of the island to be -255 inches?

7. DEPRECIATION The value of a piece of office equipment is changing at a rate of $-\$175$ per year. How long will it take for the change in value to be $-\$1,050$?

8. POPULATION The population of a small town is changing at a rate of -255 people per year. How long will it take for the change in population to be $-2,040$ people?

Division

Solve each equation.

1. $y = 64 \div (-8)$

2. $-100 \div 4 = c$

3. $f = -250 \div (-5)$

4. $60 \div (-12) = x$

5. $-90 \div (-10) = u$

6. $-88 \div 4 = k$

7. $375 \div (-25) = g$

8. $t = -960 \div (-3)$

9. $r = 700 \div 35$

Evaluate each expression if $r = -96$, $t = -8$, and $v = 2$.

10. $\frac{r}{t}$

11. $\frac{t}{v}$

12. $\frac{-4r}{t}$

~~13.~~ $\frac{t^2}{v}$

14. $\frac{728}{t}$

15. $\frac{tv}{4}$

16. $\frac{r}{-48}$

17. $\frac{4t}{v}$

18. $\frac{r}{tv}$

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Multiplication

Solve each equation.

1. $-7(-8) = p$

2. $10(-6) = j$

3. $a = -9(3)$

~~4.~~ $(-8)^2 = e$

5. $m = (-12)(-12)$

6. $20(-20) = v$

7. $t = (-25)(4)$

8. $15(30) = c$

9. $h = 2(-2)(2)$

Evaluate each expression if $x = -3$, $y = -10$, $a = 2$, and $b = 6$.

10. $-8a$

11. $9x$

12. xy

13. ab

14. $3xa$

15. $-10by$

16. $-abx$

~~17.~~ x^2

18. $25y$

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