

Identify the constant of proportionality for the proportional relationship represented by each equation.

7. $y = 10x$

Constant of proportionality: _____

8. $y = -x$

Constant of proportionality: _____

9. $y = 0.27x$

Constant of proportionality: _____

Choose the best answer.

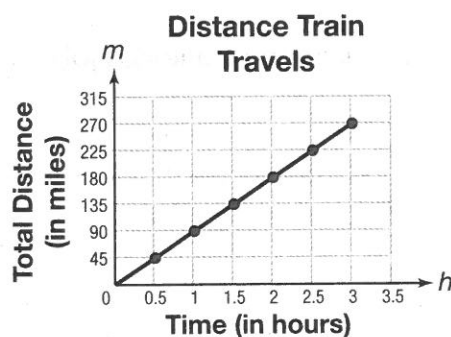
10. The wolf population of a park was 200 in the year 2000. It increased by 20% from 2000 to 2005. It then increased by 15% from 2005 to 2010. What was the wolf population in the park in 2010?

A. 235
B. 253
C. 270
D. 276

11. The price of a family dinner was \$48.00. A sales tax added 5% to the final bill. The family then left a \$10.08 tip. If the family included the sales tax when calculating the tip, what percent tip did the family leave?

A. 2%
B. 10%
C. 18%
D. 20%

12. What is the unit rate of speed for this train?



A. 1 mile per hour
B. 45 miles per hour
C. 90 miles per hour
D. 180 miles per hour

13. Which table shows pairs of values that are **not** in a proportional relationship?

A.

x	1	2	3	4
y	14	28	42	56

B.

x	1	2	3	4
y	8	16	32	64

C.

x	1	2	3	4
y	3	6	9	12

D.

x	1	2	3	4
y	$\frac{1}{6}$	$\frac{1}{3}$	$\frac{1}{2}$	$\frac{2}{3}$