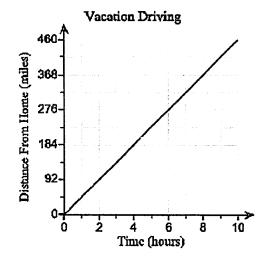
PRACTICE

1. A machine manufactures 55 parts in 11 minutes. A newer machine can manufacture the 60 parts in 15 minutes.

Find the rate and write an equation that models how many parts y each machine can manufacture in any number of minutes x.

Old Machine rate	New Machine rate
Old Machine equation	New Machine equation

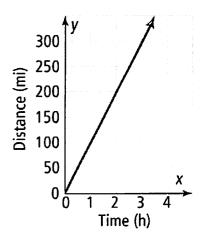
2. The graph shows a proportional relationship between a family's distance from home, y, and the time they spend driving, x. Write an equation for the relationship shown by the graph.



- 3. Write an equation for the following description:
 - a. y is three times the value of x.

b. Twice x minus 7 is y.

- 4. The graph shows the distance d a train travels in time t at a constant speed r.
 - a. Write an equation in d = rt form that models the situation shown.



b. Another train can travel 300 miles in 3 hours. Which train travels at a greater rate?

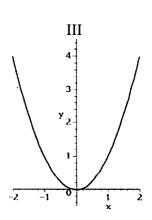
5. The number of miles Kat walks is represented by the equation y = 7x, where x is the number of hours spent walking and y is the number of miles walked. The number of miles Jacob walks in x hours is modeled by the equation y = 5x. Who walks faster? Explain.

DAILY REVIEW

Which function(s) is linear?

$$I \\
y = -2x$$

II	
x	у
0	0
2	8
4	16
6	24



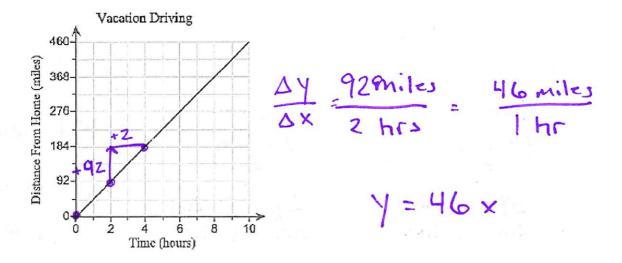
PRACTICE

1. A machine manufactures 55 parts in 11 minutes. A newer machine can manufacture the 60 parts in 15 minutes.

Find the rate and write an equation that models how many parts y each machine can manufacture in any number of minutes x.

Old Machine rate
$$\frac{55}{11} = 5$$
 per $\frac{5}{11} = 5$ New Machine equation $\frac{5}{11} = \frac{5}{11} = \frac{5}$

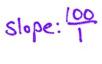
2. The graph shows a proportional relationship between a family's distance from home, *y*, and the time they spend driving, *x*. Write an equation for the relationship shown by the graph.



- 3. Write an equation for the following description:
 - a. y is three times the value of x.

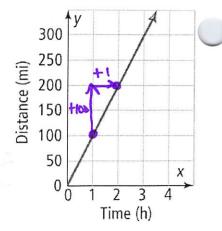
b. Twice x minus 7 is y.

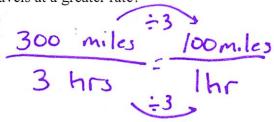
- 4. The graph shows the distance d a train travels in time t at a constant speed r.
 - a. Write an equation in d = rt form that models the situation shown.





b. Another train can travel 300 miles in 3 hours. Which train travels at a greater rate?





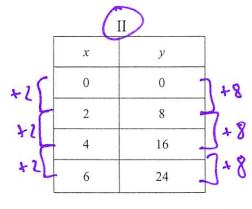
- Some rate
- 5. The number of miles Kat walks is represented by the equation y = 7x, where x is the number of hours spent walking and y is the number of miles walked. The number of miles Jacob walks in x hours is modeled by the equation y = 5x. Who walks faster? Explain.

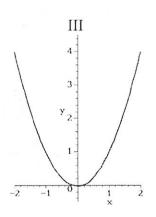
Ket welks 2 mph fester

DAILY REVIEW

Which function(s) is linear?







Constant rate of Change = 4