

Direct and Inverse Proportions

1. If two pencils cost \$1.50, how many pencils can you buy with \$9.00?

2. If y is directly proportional to x and given $y = 9$ when $x = 5$, find:
 - a) the value of y when $x = 15$

 - b) the value of x when $y = 6$

3. Jane ran 100 meters in 15 seconds. How long did she take to run 2 meters?

4. Suppose that y is inversely proportional to x and that $y = 8$ when $x = 3$. Calculate the value of y when $x = 10$.

5. It takes 4 men 6 hours to repair a road. How long will it take 7 men to do the job if they work at the same rate?