

Inverse Variation Exit Quiz

Solve problem involving Inverse Variation.

1. If y varies inversely as x , and $y = 35$ when $x = 14$, find x when $y = 15$.

2. If x inversely as the cube root of y , and $x = 27$ when $y = 27$, find x when $y = 8$?

3. Given P varies inversely as Q and that $P = 4$ when $Q = \frac{1}{2}$, find the value of P when $Q = 2\frac{1}{2}$.

4. The time T required to do a job varies inversely as the number of people P working. I take 5 h for 7 bricklayers to complete a certain job. How long will it take 10 bricklayers to complete a job?

5. The time required to drive a fixed distance varies inversely as the speed r . It takes 5 h at a speed of 80 km/h to drive a fixed distance. How long will it take to drive the same distance at a speed of 60 km/h?