

**Quiz 57** .....

1. Which equation represents inverse variation?

A)  $y = 7x$

B)  $xy = 7$

C)  $y = 7$

D)  $x + y = 7$

2. Write an inverse variation equation if  $y$  varies inversely with  $x$  and  $y = 3$  and  $x = 2$ .

3. Suppose  $y$  varies inversely with  $x$ , and  $y = 10$  when  $x = -2$ . Find  $y$  when  $x = 5$ .

4. Suppose  $y$  varies inversely with  $x$ , and  $y = 6$  when  $x = 2$ . Find  $x$  when  $y = 3$ .

5. The time it takes to travel a certain distance varies inversely with the speed traveled. If it takes 20 minutes to drive to work at 60 mph, how long will it take to drive back home at 50 mph?