

**Direct Variation**

“y varies directly as x”

$$y = kx$$



Constant of variation

Solve. Assume y varies directly as x.

1. If  $x = 2$  when  $y = 3$ ,  
find  $y$  when  $x = 4$ .

2. If  $x = 5$  when  $y = 2$ ,  
find  $x$  when  $y = 6$ .

3. If  $y = 6$  when  $x = 4$ ,  
find  $y$  when  $x = 10$ .

4. If  $y = -2$  when  $x = -1$ ,  
find  $y$  when  $x = 5$ .

5. If  $x = -3$  when  $y = -2$ ,  
find  $x$  when  $y = -4$ .

6. If  $x = 4$  when  $y = -3$ ,  
find  $x$  when  $y = 0$ .