

## Direct Proportion

1. In each of these tables,  $y$  is directly proportional to  $x$ .

Fill in the gaps in each table.

x	4	8	
y	1	2	3

x	2	6	7
y	10		

x	3	5	10	16
y		7.5		

x	-2	0		7	
y	-1		5		10

x		4	7	10	
y	5	10			37.5

2.  $x$  is directly proportional to  $y$ . When  $x = 5$ ,  $y = 15$ . Find  $y$  when  $x = 20$ .
3.  $m$  is directly proportional to  $n$ . When  $m = 4$ ,  $n = 6$ . Find  $n$  when  $m = 10$ .
4.  $p$  is directly proportional to  $q$ . When  $p = 6$ ,  $q = 2$ . Find  $q$  when  $p = 4$ .
5.  $s$  is directly proportional to  $t$ . When  $t = 21$ ,  $s = 14$ . Find  $s$  when  $t = 201$ .
6.  $c$  is directly proportional to  $d$ . When  $c = 15$ ,  $d = 8$ . Find  $c$  when  $d = 10$ .
7.  $f$  is directly proportional to  $g$ . When  $f = 200$ ,  $g = 140$ . Find  $g$  when  $f = 350$ .
8.  $y$  is directly proportional to the **square** of  $x$ . When  $x = 5$ ,  $y = 75$ . Find  $y$  when  $x = 4$ .
9.  $k$  is directly proportional to the **cube** of  $j$ . When  $j = 2$ ,  $k = 40$ . Find  $j$  when  $k = 320$ .
10.  $a$  is directly proportional to the square root of  $b$ . When  $b = 9$ ,  $a = 3/2$ . Find  $b$  when  $a = 2$ .