

## Direct Proportion

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

Fill in the gaps in each table.

x	4	8	12
y	1	2	3

x	2	6	7
y	10	30	35

x	3	5	10	16
y	4.5	7.5	15	24

x	-2	0	10	7	20
y	-1	0	5	3.5	10

x	2	4	7	10	15
y	5	10	17.5	25	37.5

2.  $x$  is directly proportional to  $y$ . When  $x = 5$ ,  $y = 15$ . Find  $y$  when  $x = 20$ .  
 $y = 60$
3.  $m$  is directly proportional to  $n$ . When  $m = 4$ ,  $n = 6$ . Find  $n$  when  $m = 10$ .  
 $n = 15$
4.  $s$  is directly proportional to  $t$ . When  $t = 21$ ,  $s = 14$ . Find  $s$  when  $t = 201$ .  
 $s = 134$
5.  $c$  is directly proportional to  $d$ . When  $c = 15$ ,  $d = 8$ . Find  $c$  when  $d = 10$ .  
 $c = 18.75$
6.  $f$  is directly proportional to  $g$ . When  $f = 200$ ,  $g = 140$ . Find  $g$  when  $f = 350$ .  
 $g = 245$
7.  $y$  is directly proportional to the **square** of  $x$ . When  $x = 5$ ,  $y = 75$ . Find  $y$  when  $x = 4$ .  
 $y = 48$
8.  $k$  is directly proportional to the **cube** of  $j$ . When  $j = 2$ ,  $k = 40$ . Find  $j$  when  $k = 320$ .  
 $j = 40$
9.  $a$  is directly proportional to the square root of  $b$ . When  $b = 9$ ,  $a = 3/2$ . Find  $b$  when  $a = 2$ .  
 $b = 16$