

## Using Constants to Solve Equations

No Calculator

Solve equation for “k”, then solve for y:

1. Given  $y=kx$  where  $y= 18$  and  $x=2$ , what is the y, when  $x=3$ ?
2. Given  $y=kx$  where  $y= 90$  and  $x=10$ , what is the y, when  $x=13$ ?
3. Given  $y=kx$  where  $y= -32$  and  $x=4$ , what is the y, when  $x=10$ ?
4. Given  $y=kx$  where  $y= -91$  and  $x=13$ , what is the y, when  $x=17$ ?
5. Given  $y=kx$  where  $y= 18$  and  $x=3$ , what is the y, when  $x=6$ ?
6. Given  $y=kx$  where  $y= 12$  and  $x=2$ , what is the y, when  $x=7$ ?
7. Given  $y=kx$  where  $y= -21$  and  $x=3$ , what is the y, when  $x=9$ ?
8. Given  $y=kx$  where  $y= -75$  and  $x=15$ , what is the y, when  $x=21$ ?
9. Given  $y=kx$  where  $y= -24$  and  $x=12$ , what is the y, when  $x=18$ ?
10. Given  $y=kx$  where  $y= 40$  and  $x=8$ , what is the y, when  $x=11$ ?
11. Given  $y=kx$  where  $y= 56$  and  $x=7$ , what is the y, when  $x=12$ ?
12. Given  $y=kx$  where  $y= 55$  and  $x=11$ , what is the y, when  $x=17$ ?
13. Given  $y=kx$  where  $y= -88$  and  $x=11$ , what is the y, when  $x=18$ ?
14. Given  $y=kx$  where  $y= 10$  and  $x=5$ , what is the y, when  $x=6$ ?
15. Given  $y=kx$  where  $y= 39$  and  $x=13$ , what is the y, when  $x=16$ ?

Answer

1. 27
2. 117
3. -80
4. -119
5. 36
6. 42
7. -63
8. -105
9. -36
10. 55
11. 96
12. 85
13. -144
14. 12
15. 48