

Direct and Inverse Proportion *fluency*

 **y is directly proportional to x. Use the first pair to find the missing y.**

1 $x = 3, y = 12 \rightarrow x = 5, y = ?$

2 $x = 4, y = 20 \rightarrow x = 9, y = ?$

3 $x = 2, y = 7 \rightarrow x = 10, y = ?$

4 $x = 9, y = 45 \rightarrow x = 2, y = ?$

5 $x = 8, y = 6 \rightarrow x = 20, y = ?$

6 $x = 3, y = 1.5 \rightarrow x = 14, y = ?$

 **y is directly proportional to x^2 . Use the first pair to find the missing y.**

7 $x = 3, y = 18 \rightarrow x = 5, y = ?$

8 $x = 2, y = 8 \rightarrow x = 6, y = ?$

9 $x = 5, y = 50 \rightarrow x = 3, y = ?$

10 $x = 2, y = 12 \rightarrow x = 4, y = ?$

11 $x = 5, y = 75 \rightarrow x = 2, y = ?$

12 $x = 3, y = 4.5 \rightarrow x = 10, y = ?$

 **y is inversely proportional to x. Use the first pair to find the missing y.**

13 $x = 4, y = 6 \rightarrow x = 3, y = ?$

14 $x = 2, y = 10 \rightarrow x = 5, y = ?$

15 $x = 3, y = 12 \rightarrow x = 9, y = ?$

16 $x = 5, y = 8 \rightarrow x = 4, y = ?$

17 $x = 1.5, y = 20 \rightarrow x = 6, y = ?$

18 $x = 8, y = 2.5 \rightarrow x = 10, y = ?$

 **y is inversely proportional to x^2 . Use the first pair to find the missing y.**

19 $x = 2, y = 5 \rightarrow x = 4, y = ?$

20 $x = 1, y = 36 \rightarrow x = 3, y = ?$

21 $x = 4, y = 3 \rightarrow x = 2, y = ?$

22 $x = 2, y = 50 \rightarrow x = 5, y = ?$

23 $x = 3, y = 9 \rightarrow x = 6, y = ?$

24 $x = 5, y = 16 \rightarrow x = 4, y = ?$

 **y is directly proportional to $\sqrt{x}$. Use the first pair to find the missing y.**

25 $x = 4, y = 6 \rightarrow x = 25, y = ?$

26 $x = 9, y = 15 \rightarrow x = 16, y = ?$

27 $x = 16, y = 8 \rightarrow x = 49, y = ?$

28 $x = 1, y = 3 \rightarrow x = 36, y = ?$

29 $x = 25, y = 20 \rightarrow x = 4, y = ?$

30 $x = 36, y = 12 \rightarrow x = 81, y = ?$