Direct or inverse? Proportion from a table

1

Complete the two check rows.
Direct proportion, inverse proportion or neither?

x	1	2	4	5
y	4	8	16	20
$y \div x$	4			
$x \times y$	4			

Answer _____

2

Complete the two check rows.
Direct proportion, inverse proportion or neither?

x	1	2	4	8
y	24	12	6	3
$y \div x$				
$x \times y$				

Answer _____

3

Complete the two check rows.
Direct proportion, inverse proportion or neither?

x	1	2	3	6
y	5	7	9	15
$y \div x$				
$x \times y$				

Answer _____

4

Complete the two check rows.
Direct proportion, inverse proportion or neither?

x	2	5	8	10
y	3	7.5	12	15
$y \div x$				
$x \times y$				

Answer _____

5

Is this direct proportion or inverse proportion? Find the missing value.

x	3	4	6	9
y	24	18	?	8

_____

_____

Answer _____

6

A baker's table shows the flour needed for different numbers of bread rolls.
Is the flour directly proportional to the number of rolls? How many rolls does 990 g of flour make?

Rolls	6	10	15	?
Flour (g)	270	450	675	990

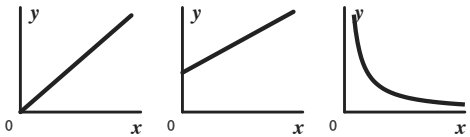
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_____

Answer _____

7

Each graph shows y against x.
Which shows direct proportion?
Which shows inverse proportion?
Which shows neither?



Answer _____

8

Priya says y is directly proportional to x, because as x goes up, y goes up too.
Is she right? Explain.

x	2	4	6	8
y	7	9	11	13

_____

_____

Answer _____

Direct or inverse? Proportion from a table *further practice*

9

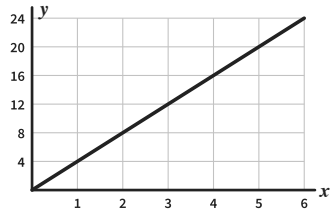
Are x and y in direct proportion, inverse proportion or neither?

x	0.5	2	2.5	4
y	16	4	3.2	2

Answer _____

10

The graph shows that y is directly proportional to x. Find y when $x = 15$.



$y =$ _____

11

Identical pumps fill a tank.
The table shows how long it takes.
How many pumps would fill it in 1.5 hours?

Pumps	2	3	4	?
Hours	6	4	3	1.5

Answer _____

12

y is inversely proportional to x.
Complete the table.

x	2	4	5	
y	10			2.5

Answer _____

13

The table shows the monthly cost of three phone plans. Is the cost directly proportional to the data? Explain.

Data (GB)	5	10	20
Cost (£)	8	12	20

Answer _____

14

The cost of ribbon is directly proportional to its length.
Complete the table.

Length (m)	1.5	4		10
Cost (£)	6		30	40

Answer _____

15

y is inversely proportional to x, and the point (2, 9) is on its graph.
Which of these points are also on the graph? (3, 6) (4, 4) (9, 2) (6, 4)

Answer _____

16

Tom says, "As x goes up, y goes down, so y is inversely proportional to x."
Is he right? Explain.

x	1	2	3	4
y	10	8	6	4

Answer _____