

Name: Class:

Identify proportional relationship from tables.

In each case, Select the tables that show proportional relationship between x and y.

1.

x	y	a
2	3	
3	11	
4	12	

x	y	b
3	6	
6	12	
12	24	

2.

x	y	a
8	4	
24	12	
72	36	

x	y	b
12	6	
24	12	
48	24	

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1.

x	y	a
2	3	
3	11	
4	12	

x	y	b
3	6	
6	12	
12	24	

Calculate the ratio of x to y in each row.

x	y	ratio of x to y
2	3	$\frac{2}{3}$
3	11	$\frac{11}{3}$
4	12	$\frac{4}{12} = \frac{1}{3}$

x	y	ratio of x to y
3	6	$\frac{1}{2}$
6	12	$\frac{1}{2}$
12	24	$\frac{1}{2}$

If the ratios in each row are the same then relationship is proportional.

For table a, you see that the ratios of x and y in each row are not the same.

So, table a does not show a proportional relationship between x and y.

For table b, you see that the ratios of x and y in each row are the same: (1/2).

So, table b shows a proportional relationship between x and y.

2.

x	y	a
8	4	
24	12	
72	36	

x	y	b
12	6	
24	12	
48	24	

Calculate the ratio of x to y in each row.

x	y	ratio of x to y
8	4	$\frac{8}{4} = 2$
24	12	$\frac{24}{12} = 2$
72	36	$\frac{72}{36} = 2$

x	y	ratio of x to y
12	6	$\frac{12}{6} = 2$
24	12	$\frac{24}{12} = 2$
48	24	$\frac{48}{24} = 2$

in each row of both tables the ratio of x to y are the same (2).

So, both tables (a, b) shows a proportional relationship between x and y.