



Name _____ Class _____ Date _____

1 Two variables that are related so that the ratio of their values is **always the same** are said to be in **direct variation**.

True or false?

- A true
B false

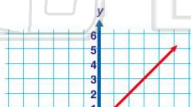
2 The formula for **direct variation** is $y = kx$, where k is the constant of variation.

True or false?

- A true
B false

3 The graph shown represents a **direct variation**.

True or false?



4 Which table shows that y varies **directly as x** ?

- A 1
B 2

1	x	y	2	x	y
	4	8		3	5
	6	9		4	4
	8	10		5	3

5



PREVIEW

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7

- C 32
D 42

- B $y = 7x$ D $y = (\frac{3}{4})x$

9 If y varies directly as x and $y = 30$ when $x = 18$, what is equation of variation?

- A $y = (\frac{5}{3})x$ C $y = 5x$
B $y = (\frac{3}{5})x$ D $y = 6x$

10 If y varies directly as x and $y = 10$ when $x = 2$, what is the equation of variation and what is the **value of y** when $x = 22$?

- A $y = (\frac{1}{5})x$, 4.4 C $y = 5x$, 110
B $y = 10x$, 220 D $y = 2x$, 44



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C

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