

Exit Ticket: Direct Variation

Does the equation represent a direct variation? If so, find the constant of variation.

- 1 $3x = -5y$
- (A) yes; $k = -\frac{5}{3}$
- (B) yes; $k = -\frac{3}{5}$
- (C) yes; $k = \frac{3}{5}$
- (D) no

- 2 $7x + 5y = 0$
- (A) yes; $k = \frac{7}{5}$
- (B) yes; $k = -\frac{7}{5}$
- (C) yes; $k = 5$
- (D) no

- 3 $3x^2 + 6y = 0$
- (A) yes; $k = \frac{1}{2}$
- (B) no
- (C) yes; $k = 2$
- (D) yes; $k = -\frac{1}{2}$

- 4 Suppose y varies directly with x , and $y = 20$ when $x = 2$. What direct variation equation relates x and y ? What is the value of y when $x = -5$?
- (A) $y = -10x; 50.00$
- (B) $y = 10x; -50.00$
- (C) $y = 0.05x; -0.25$
- (D) $y = 0.1x; -0.50$

For the data in the table, does y vary directly with x ? If it does, write an equation for the direct variation.

5

x	y
4	15
8	30
12	45

- (A) yes; $y = 3.75x$
- (B) yes; $y = 1.875x$
- (C) yes; $y = 7.5x$
- (D) no; y does not vary directly with x

6

x	y
11	5
22	20
33	45

- (A) yes; $y = 4.4x$
- (B) yes; $y = 2.2x$
- (C) yes; $y = 1.1x$
- (D) no; y does not vary directly with x

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Answer Section

- 1 B
- 2 B
- 3 B
- 4 B
- 5 A
- 6 D