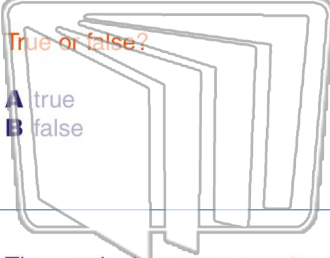




Name \_\_\_\_\_ Class \_\_\_\_\_ Date \_\_\_\_\_

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?

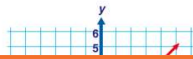
- A true
- B false

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

True or false?

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



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

1	<table border="1"><tr><th>x</th><th>y</th></tr><tr><td>4</td><td>8</td></tr></table>	x	y	4	8	2	<table border="1"><tr><th>x</th><th>y</th></tr><tr><td>3</td><td>5</td></tr></table>	x	y	3	5
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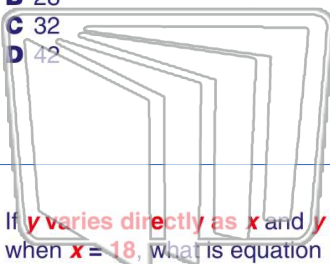


## PREVIEW

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

- A 24
- B 28
- C 32
- D 42



- A  $y = (\frac{36}{27})x$
- B  $y = 7x$
- C  $y = 9x$
- D  $y = (\frac{3}{2})x$

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

- A  $y = (\frac{5}{3})x$
- B  $y = (\frac{3}{5})x$
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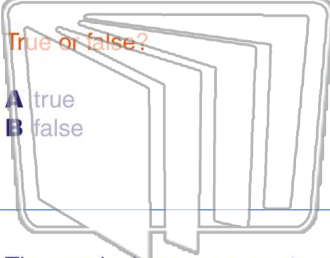
10 If  $y$  varies directly as  $x$  and  $y = 10$  when  $x = 2$ , what is the equation of variation and what is the **value of  $y$**  when  $x = 22$ ?

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



Name \_\_\_\_\_ Class \_\_\_\_\_ Date \_\_\_\_\_

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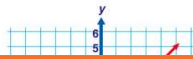
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