Direct proportion: y = kx

Exit ticket ANSWERS Name _____

1. y is directly proportional to x. When $x = 5$, $y = 40$.
Write a formula for y in terms of x.

$y = 8x$

2. y is directly proportional to x. When $x = 3$, $y = 21$.
Find y when $x = 6$.

$y =$ 42

3. y is directly proportional to x. When $x = 4$, $y = 36$.
Find x when $y = 54$.

$x =$ 6

The Maths Habit

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NEXT LESSON

1 **y is directly proportional to x. When $x = 5$, $y = 40$. Write a formula for y in terms of x.**

$y = 8x$

TESTS Finding k from one pair and writing y = kx

LOOK FOR
- $y = x + 35$ added the difference: y = kx multiplies
- $y = 0.125x$ k the wrong way up: x ÷ y, not y ÷ x

FIX IT

y is directly proportional to x. When $x = 6$, $y = 42$. Write a formula for y in terms of x. $y = 7x$

---

2 **y is directly proportional to x. When $x = 3$, $y = 21$. Find y when $x = 6$.**

$y = 42$

TESTS Using y = kx to find y

LOOK FOR
- 24 added 3 to y because x went up by 3
- 7 stopped at k

FIX IT

y is directly proportional to x. When $x = 4$, $y = 32$. Find y when $x = 7$. $y = 56$

---

3 **y is directly proportional to x. When $x = 4$, $y = 36$. Find x when $y = 54$.**

$x = 6$

TESTS Using y = kx the other way round to find x

LOOK FOR
- 486 multiplied 54 by k instead of dividing
- 22 added 18 to x because y went up by 18

FIX IT

y is directly proportional to x. When $x = 3$, $y = 15$. Find x when $y = 40$. $x = 8$