Inverse proportion: y = k/x

Exit ticket ANSWERS Name _____

1. y is inversely proportional to x. When $x = 4$, $y = 5$.
Write a formula for y in terms of x.

$y = \frac{20}{x}$

2. y is inversely proportional to x. When $x = 3$, $y = 12$.
Find y when $x = 9$.

$y =$ 4

3. y is inversely proportional to x. When $x = 5$, $y = 6$.
Find x when $y = 10$.

$x =$ 3

The Maths Habit

Inverse proportion: y = k/x

Exit ticket ANSWERS Name _____

1. y is inversely proportional to x. When $x = 4$, $y = 5$.
Write a formula for y in terms of x.

$y = \frac{20}{x}$

2. y is inversely proportional to x. When $x = 3$, $y = 12$.
Find y when $x = 9$.

$y =$ 4

3. y is inversely proportional to x. When $x = 5$, $y = 6$.
Find x when $y = 10$.

$x =$ 3

The Maths Habit

Inverse proportion: y = k/x

Exit ticket ANSWERS Name _____

1. y is inversely proportional to x. When $x = 4$, $y = 5$.
Write a formula for y in terms of x.

$y = \frac{20}{x}$

2. y is inversely proportional to x. When $x = 3$, $y = 12$.
Find y when $x = 9$.

$y =$ 4

3. y is inversely proportional to x. When $x = 5$, $y = 6$.
Find x when $y = 10$.

$x =$ 3

The Maths Habit

Inverse proportion: y = k/x

Exit ticket ANSWERS Name _____

1. y is inversely proportional to x. When $x = 4$, $y = 5$.
Write a formula for y in terms of x.

$y = \frac{20}{x}$

2. y is inversely proportional to x. When $x = 3$, $y = 12$.
Find y when $x = 9$.

$y =$ 4

3. y is inversely proportional to x. When $x = 5$, $y = 6$.
Find x when $y = 10$.

$x =$ 3

The Maths Habit

Inverse proportion: y = k/x

Exit ticket ANSWERS Name _____

1. y is inversely proportional to x. When $x = 4$, $y = 5$.
Write a formula for y in terms of x.

$y = \frac{20}{x}$

2. y is inversely proportional to x. When $x = 3$, $y = 12$.
Find y when $x = 9$.

$y =$ 4

3. y is inversely proportional to x. When $x = 5$, $y = 6$.
Find x when $y = 10$.

$x =$ 3

The Maths Habit

Exit ticket Inverse proportion: y = k/x

1 **y is inversely proportional to x. When $x = 4$, $y = 5$. Write a formula for y in terms of x.**

$y = \frac{20}{x}$

TESTS Finding k = xy from one pair and writing y = k/x

LOOK FOR

$y = 1.25x$ worked as direct proportion

$y = \frac{1.25}{x}$ divided to find k: k = x × y

FIX IT

y is inversely proportional to x. When $x = 6$, $y = 3$. Write a formula for y in terms of x.

$y = \frac{18}{x}$

2 **y is inversely proportional to x. When $x = 3$, $y = 12$. Find y when $x = 9$.**

$y = 4$

TESTS Using y = k/x to find y

LOOK FOR

36 worked as direct proportion: x got bigger, so y gets smaller

12 divided k by the old x, not the new one

FIX IT

y is inversely proportional to x. When $x = 4$, $y = 9$. Find y when $x = 12$.

$y = 3$

3 **y is inversely proportional to x. When $x = 5$, $y = 6$. Find x when $y = 10$.**

$x = 3$

TESTS Using y = k/x the other way round to find x

LOOK FOR

300 multiplied k by 10 instead of dividing

8.3 worked as direct proportion

FIX IT

y is inversely proportional to x. When $x = 2$, $y = 15$. Find x when $y = 6$.

$x = 5$