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ALGEBRA 2 · 5 MINUTES · START RIGHT AWAY

Lesson 4-1b # Use Inverse Variation

Name _____ Date _____ Per _____

1 FLUENCY

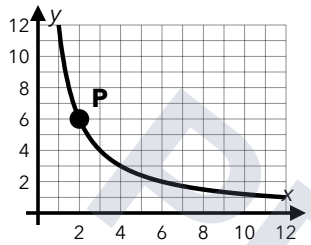
y varies inversely with x, and $y = 8$ when $x = 3$. Write the equation, then find y when $x = 12$.

$k =$ ☐ $y =$ ☐

When $x = 12$: $y =$ ☐

2 VISUAL MODEL

The graph shows an inverse variation through point P. Use it to complete.



$k =$ ☐

When $x = 4$, $y =$ ☐

When $y = 2$, $x =$ ☐

3 APPLICATION

The frequency of a vibrating string varies inversely with its length. A 60 cm string vibrates at 440 Hz. What is the frequency of a 55 cm string?

Frequency = ☐ Hz

WORK

4 REASONING

y varies inversely with x. If x is multiplied by 3, what happens to y?

(A) y is multiplied by 3

(B) y is divided by 3

(C) y decreases by 3

(D) y does not change

*We don't divide our effort, we **multiply** it!*

✎ Show your work ✓ Check your work ★ Try your best

Preview - the full worksheet and its answer key are at primeworksheet.com