DO NOW

ALGEBRA 2 · 5 MINUTES · START RIGHT AWAY

Lesson 4-1c # Use an Inverse Variation Model

Name _____ Date _____ Per _____

1 FLUENCY

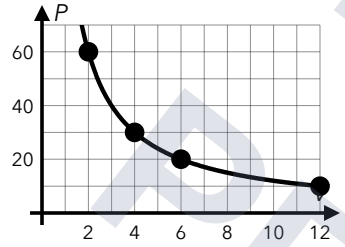
A trip is modeled by $t = \frac{360}{r}$, where r is speed (mph) and t is time (h).

Time at $r = 45$ mph: $t =$ ☐ h

Speed for a 6-hour trip: $r =$ ☐ mph

2 VISUAL MODEL

Gas pressure P (kPa) varies inversely with volume V (L). Use the graph.



P at $V = 4$: ☐

V when $P = 20$: ☐

Model: $P =$ _____

3 APPLICATION

Friends share a $540 cabin rental equally. How many friends must share it for each to pay $90? How many MORE friends are needed for each share to drop to $60?

☐ friends ☐ more friends

WORK

4 REASONING

Select TWO situations that are inverse variations.

- **A** time to drive 100 mi vs. speed
- **B** total cost vs. number of $4 tickets
- **C** size of each slice vs. number of equal slices of one pizza
- **D** perimeter of a square vs. its side

_____

*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