DO NOW

ALGEBRA 2 · 5 MINUTES · START RIGHT AWAY

Lesson 1-4g

Use a Finite Arithmetic Series

Name _____ Date _____ Per _____

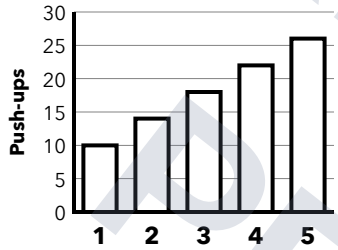
1 FLUENCY

Find S_{12} for the arithmetic series with $a_1 = 6$ and $d = 4$.

$a_{12} =$ ☐ $S_{12} =$ ☐

2 VISUAL MODEL

The graph shows Kim's push-ups per day in weeks 1–5. The pattern continues.



$a_1 =$ ☐ $d =$ ☐

Week 12: ☐

Sum of weeks 1–12: ☐

3 APPLICATION

A theater has 18 rows. Row 1 has 24 seats and each row has 2 more than the one before. Tickets cost $15. How much money is made if every seat is sold?

Seats: ☐ Money: _____

WORK

4 REASONING

Ray says the first 14 terms of 1 + 3 + 5 + 7 + … add up to more than 200. Is he correct? How many terms are needed?

Yes or **No** Terms needed: ☐

_____

*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