

NAME _____

DATE _____

Countdown: 2 Weeks

SCORE _____

1. Gina is building a garage that needs to have 96 square meters of space. The garage must have a width of least 4 meters and be measured in whole meters. 4,MD.3

Part A: How many different plans can Gina use for the garage? List the dimensions of each plan.

3 plans: 4 m X 24 m, 6 m X 16 m, 8 m X 12 m

Part B: To have the smallest possible perimeter, which plan should Gina choose? Explain.

Sample answer: 8 m X 12 m has a perimeter of 40 m, less than 56 m for the 4 m X 24 m plan, and 44 m for the 6 m X 16 m plan.

2. A rectangle has a length of 15 feet and a perimeter of 42 feet. Which of the following is true? Select all that apply. 4,MD.3

- The figure is a square.
- The width of the rectangle is 12 feet.
- The area of the rectangle is 90 square feet.
- One side of the rectangle measures 6 feet.

THINK SMART FOR SBAC
On the actual test, you will click on answers to multiple choice questions. In this book, you will color in boxes to answer multiple choice questions.

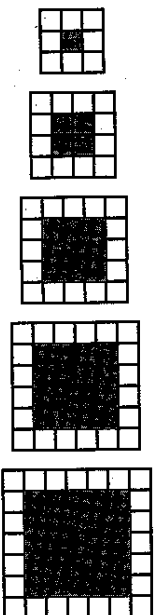
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3. Diego explained how he solved the problem below. First he subtracted 30 from 54 to get 24. Then he divided 24 by 3 to get 8 and then added 4 to 8 to get a final answer of 12. Is Diego's solution correct? Explain. 4,OA.3

$$54 - 30 + 3 + 4$$

No, Diego should have divided $30 \div 3$ first to get 10, then subtracted 10 from 54 to get 44. Finally, he should have added 4 to 44 to get 48.

4. If you continue the pattern of shaded squares surrounded by unshaded squares, at what point in the pattern does the area of the shaded squares become greater than the area of the unshaded squares? Explain. 4,MD.3



In the 7 X 7 square the shaded squares have an area of 25 square units, while the area of the outer unshaded squares is 24 square units.

5. Milton started the morning with a full gallon of milk. He used 3 cups of milk to make biscuits and 3 pints of milk to make pudding. To make pancakes, Milton needs 6 cups of milk. Does he have enough milk to make the pancakes? Explain. 4,MD.1

Yes, 1 gallon = 16 cups. Milton used 3 cups + 3 pints = 9 cups. If he uses 6 cups to make pancakes, he will have 1 cup left.

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