

Name _____

Same Area, Different Perimeters



COMMON CORE STANDARD MACC.3.MD.4.8

Geometric measurement: recognize perimeter as an attribute of plane figures and distinguish between linear and area measures.

Find the perimeter and the area. Tell which rectangle has a greater perimeter.



A

A: Area = 8 square units;

Perimeter = 18 units

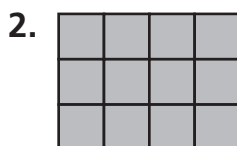


B

B: Area = _____;

Perimeter = _____

Rectangle _____ has a greater perimeter.



A



B

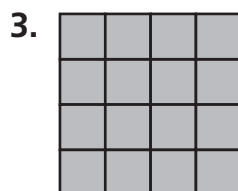
A: Area = _____;

Perimeter = _____

B: Area = _____;

Perimeter = _____

Rectangle _____ has a greater perimeter.



A



B

A: Area = _____;

Perimeter = _____

B: Area = _____;

Perimeter = _____

Rectangle _____ has a greater perimeter.

Problem Solving



Use the tile designs for 4–5.

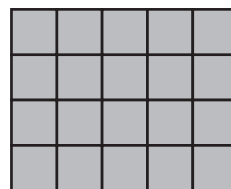
4. Compare the areas of Design A and Design B.

5. Compare the perimeters. Which design has the greater perimeter?

Beth's Tile Designs



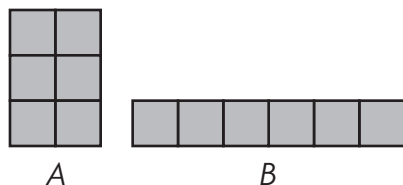
A



B

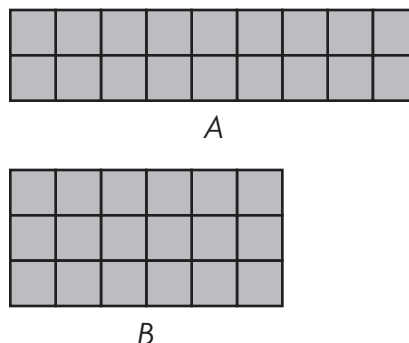
Lesson Check (MACC.3.MD.4.8)

1. Jake drew two rectangles. Which statement is true?



- (A) The perimeters are the same.
- (B) The area of A is greater.
- (C) The perimeter of A is greater.
- (D) The perimeter of B is greater.

2. Alyssa drew two rectangles. Which statement is true?



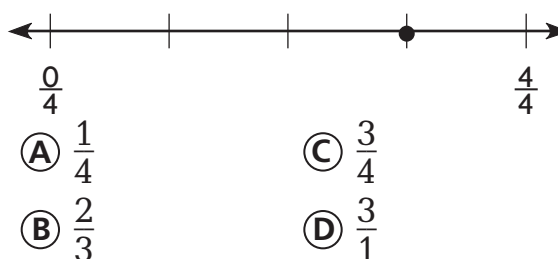
- (A) The perimeter of B is greater.
- (B) The perimeter of A is greater.
- (C) The area of B is greater.
- (D) The perimeters are the same.

Spiral Review (MACC.3.OA.4.8, MACC.3.NF.1.2a, MACC.3.NF.1.2b, MACC.3.NF.1.3d)

3. Marsha was asked to find the value of $8 - 3 \times 2$. She wrote a wrong answer. Which is the correct answer? (Lesson 7.11)

- (A) 22
- (B) 10
- (C) 4
- (D) 2

4. What fraction names the point on the number line? (Lesson 8.5)



- (A) $\frac{1}{4}$
- (B) $\frac{2}{3}$
- (C) $\frac{3}{4}$
- (D) $\frac{3}{1}$

5. Kyle drew three line segments with these lengths: $\frac{2}{4}$ inch, $\frac{2}{3}$ inch, and $\frac{2}{6}$ inch. Which list orders the fractions from least to greatest? (Lesson 9.5)

- (A) $\frac{2}{6}, \frac{2}{4}, \frac{2}{3}$
- (B) $\frac{2}{3}, \frac{2}{4}, \frac{2}{6}$
- (C) $\frac{2}{4}, \frac{2}{3}, \frac{2}{6}$
- (D) $\frac{2}{6}, \frac{2}{3}, \frac{2}{4}$

6. On Monday, $\frac{3}{8}$ inch of snow fell. On Tuesday, $\frac{5}{8}$ inch of snow fell. Which statement correctly compares the snow amounts? (Lesson 9.2)

- (A) $\frac{3}{8} = \frac{5}{8}$
- (B) $\frac{3}{8} < \frac{5}{8}$
- (C) $\frac{5}{8} < \frac{3}{8}$
- (D) $\frac{3}{8} > \frac{5}{8}$