



Compare Area and Perimeter Statements: Multiple Choice

Grade 5

Name: _____

Calculate area and perimeter; choose correct statement.

Example: Example: If $A = 8 \times 3$ and $B = 6 \times 4$, both areas are 24 square units but A has a perimeter of 22 units while B has 20 units, so Rectangle A has the greater perimeter.

(1) Rectangle A is 10 units by 15 units. Rectangle B is 12 units by 13 units. Which statement is true?

- (A) Rectangles A and B have the same area, but Rectangle A has a greater perimeter.
- (B) Rectangles A and B have the same perimeter, but Rectangle B has a greater area.
- (C) Rectangle B has a greater area, but Rectangle A has a greater perimeter.
- (D) Rectangle A has a greater area, but Rectangle B has a greater perimeter.

(2) Rectangle A is 11 units by 14 units. Rectangle B is 10 units by 16 units. Which comparison is accurate?

- (A) Rectangle A has a greater area, but Rectangle B has a greater perimeter.
- (B) Rectangles A and B have the same perimeter, but Rectangle B has a greater area.
- (C) Rectangle B has both greater area and greater perimeter than Rectangle A.
- (D) Rectangle A has both greater area and greater perimeter than Rectangle B.



(3) Rectangle A is 12 units by 12 units. Rectangle B is 10 units by 14 units. Which statement is true?

- (A) Rectangles A and B have the same perimeter, but Rectangle A has a greater area.
- (B) Rectangle B has both greater area and greater perimeter than Rectangle A.
- (C) Rectangles A and B have the same area, but Rectangle A has a greater perimeter.
- (D) Rectangle A has a greater area, but Rectangle B has a greater perimeter.

(4) Rectangle A is 13 units by 11 units. Rectangle B is 15 units by 9 units. Which statement is true?

- (A) Rectangles A and B have the same area, but Rectangle B has a greater perimeter.
- (B) Rectangle A has a greater area, but Rectangle B has a greater perimeter.
- (C) Rectangles A and B have the same perimeter, but Rectangle A has a greater area.
- (D) Rectangle B has a greater area, but Rectangle A has a greater perimeter.

(5) Rectangle A is 14 units by 10 units. Rectangle B is 13 units by 11 units. Which statement is true?

- (A) Rectangles A and B have the same area, but Rectangle A has a greater perimeter.
- (B) Rectangles A and B have the same perimeter, but Rectangle A has a greater area.
- (C) Rectangle B has a greater area, but Rectangle A has a greater perimeter.
- (D) Rectangle A has a greater area, but Rectangle B has a greater perimeter.



(6) Rectangle A is 16 units by 10 units. Rectangle B is 14 units by 12 units. Which comparison is accurate?

- (A) Rectangle A has a greater area, but Rectangle B has a greater perimeter.
- (B) Rectangle A has both greater area and greater perimeter than Rectangle B.
- (C) Rectangle B has both greater area and greater perimeter than Rectangle A.
- (D) Rectangles A and B have the same perimeter, but Rectangle B has a greater area.

