



## Compare Area and Perimeter Statements: Multiple Choice

Grade 3

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 12 units by 15 units. Rectangle B is 10 units by 18 units. Which statement is true?

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

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

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



(3) Rectangle A is 14 units by 12 units. Rectangle B is 15 units by 10 units. Which statement is true?

(A) Rectangles A and B have the same area, but A has greater perimeter.

(B) Rectangle A has both greater area and greater perimeter than B.

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

(D) Rectangle B has greater area and greater perimeter than A.

(4) Rectangle A is 16 units by 10 units. Rectangle B is 13 units by 13 units. Which statement is true?

(A) Rectangles A and B have the same area and perimeter.

(B) Rectangle A has greater area, and A and B have the same perimeter.

(C) Rectangle B has greater area, and A and B have the same perimeter.

(D) Rectangle A has both greater area and greater perimeter than B.



(5) Rectangle A is 17 units by 10 units. Rectangle B is 12 units by 14 units. Which statement is true?

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

(6) Rectangle A is 15 units by 15 units. Rectangle B is 12 units by 19 units. Which statement is true?

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

