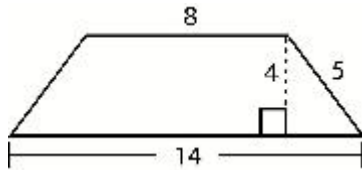


**Directions:** Please choose the best answer choice for each of the following questions.

1. What is the area of the trapezoid below?



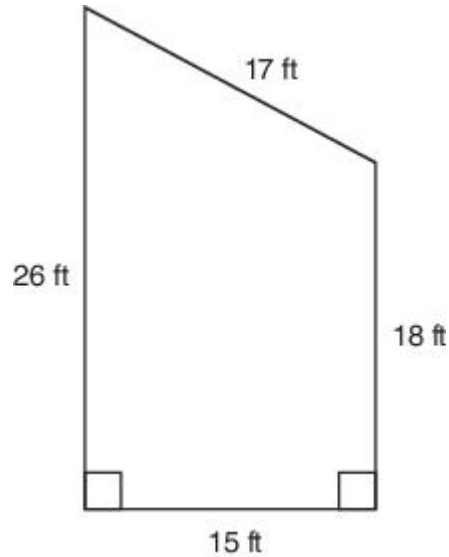
- A. 44
- B. 55
- C. 70
- D. 112

**Answer Choice Rationale**

- A. Correct
- B. No rationale available
- C. No rationale available
- D. No rationale available

ItemID A2KC.1132320  
 Correct A  
 Standard(s) MA.9-12.MA.912.G.2.5

2. Mr. Sabine is painting a wall shaped like a trapezoid, as shown.



What is the area of the wall?

- A.  $270 \text{ ft}^2$
- B.  $288 \text{ ft}^2$
- C.  $330 \text{ ft}^2$
- D.  $390 \text{ ft}^2$

**Answer Choice Rationale**

- A. No rationale available
- B. No rationale available
- C. Correct
- D. No rationale available

ItemID A2KC.1223910  
 Correct C  
 Standard(s) MA.9-12.MA.912.G.2.5

3. If the area of a square is made four times as great, how is the perimeter changed?
- A. remains the same
  - B. becomes twice as great
  - C. becomes four times as great
  - D. becomes eight times as great

**Answer Choice Rationale**

- A. No rationale available
- B. Correct

**Go on to the next page »**

- C. No rationale available
- D. No rationale available

ItemID A2KC.1132618  
 Correct B  
 Standard(s) MA.9-12.MA.912.G.2.5

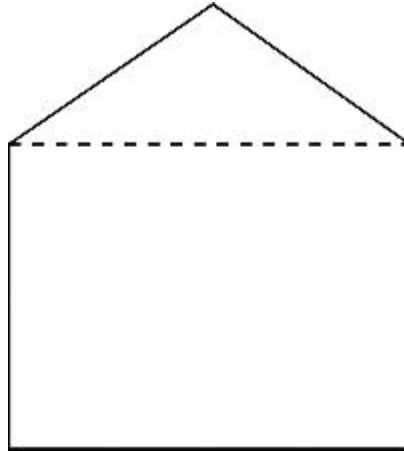
4. Your class is building a rectangular-shaped garden that is 30 feet long and 18 feet wide. You want to put stakes in the ground every 3 feet around the perimeter. How many stakes will you need?
- A. 30 stakes
  - B. 32 stakes
  - C. 34 stakes
  - D. 36 stakes

**Answer Choice Rationale**

- A. No rationale available
- B. Correct
- C. No rationale available
- D. No rationale available

ItemID A2KC.1107365  
 Correct B  
 Standard(s) MA.9-12.MA.912.G.2.5

5. Mrs. Pratt has a window in the shape of an isosceles triangle on top of a rectangle, as shown in the diagram.



The rectangular part of the window is 8 ft wide and 9 ft tall. The triangular part is 3 ft tall. How many square feet of glass are in the window?

- A. 72
- B. 84
- C. 86
- D. 96

**Answer Choice Rationale**

- A. No rationale available
- B. Correct
- C. No rationale available
- D. No rationale available

ItemID A2KC.1132321  
 Correct B  
 Standard(s) MA.9-12.MA.912.G.2.5

6. Which of the following is the inverse of the following statement?  
 "If two segments are congruent, then the two segments have the same length."
- A. If two segments have the same length, then the two segments are congruent.
  - B. If two segments are congruent, then the two segments do NOT have the same length.
  - C. If two segments are NOT congruent, then the two segments do NOT have the same length.
  - D. If two segments do NOT have the same length, then the two segments are NOT congruent.

**Answer Choice Rationale**

Go on to the next page »

- A. No rationale available
- B. No rationale available
- C. Correct
- D. No rationale available

- D. No rationale available

**ItemID** saltsmad.2859  
**Correct** C  
**Standard(s)** MA.9-12.MA.912.D.6.2

7. Which of the following is the converse of the following statement?  
 "If you are a native of Florida, then you were born in Florida."
- A. If you were NOT born in Florida, then you are NOT a native of Florida.
  - B. If you were born in Florida, then you are a native of Florida.
  - C. If you are NOT a native of Florida, then you were born in Florida.
  - D. You are a native of Florida if and only if you were born in Florida.

**Answer Choice Rationale**

- A. No rationale available
- B. Correct
- C. No rationale available
- D. No rationale available

**ItemID** saltsmad.2858  
**Correct** B  
**Standard(s)** MA.9-12.MA.912.D.6.2

8. Which of the following is the inverse of the following statement?  
 "If two lines have a common point, then the two lines intersect."
- A. If two lines do NOT have a common point, then the two lines do NOT intersect.
  - B. If two lines do NOT have a common point, then the two lines intersect.
  - C. If two lines intersect, then the two lines do NOT have a common point.
  - D. If two lines intersect, then the two lines have a common point.

**Answer Choice Rationale**

- A. Correct
- B. No rationale available
- C. No rationale available

**ItemID** saltsmad.2862  
**Correct** A  
**Standard(s)** MA.9-12.MA.912.D.6.2

9. Which of the following is the converse of the following statement?  
 "If a number ends in 7, then the number is odd."
- A. If a number is odd, then the number ends in 7.
  - B. If a number is NOT odd, then the number does NOT end in 7.
  - C. If a number does NOT end in 7, then the number is NOT odd.
  - D. If a number ends in 7, then the number is NOT odd.

**Answer Choice Rationale**

- A. Correct
- B. No rationale available
- C. No rationale available
- D. No rationale available

**ItemID** saltsmad.2861  
**Correct** A  
**Standard(s)** MA.9-12.MA.912.D.6.2

10. Which of the following is the contrapositive of the following statement?  
 "If an animal is a dog, then the animal has four legs."
- A. If an animal has four legs, then the animal is a dog.
  - B. If an animal is NOT a dog, then the animal does NOT have four legs.
  - C. If an animal is a dog, then the animal does NOT have four legs.
  - D. If an animal does NOT have four legs, then the animal is NOT a dog.

**Answer Choice Rationale**

- A. No rationale available
- B. No rationale available
- C. No rationale available
- D. Correct

**ItemID** saltsmad.2860  
**Correct** D  
**Standard(s)** MA.9-12.MA.912.D.6.2

**Stop! You have finished this exam.**