MATH MADNESS #75
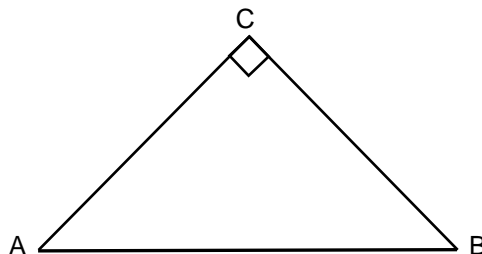
1. The Burmese python is one of the five largest species of snakes in the world. The average length of a Burmese python is 12.163 feet. What is this length rounded to the nearest hundredth of a foot?

   a. 11.10
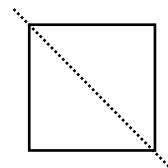   b. 12.17
   c. 12.16
   d. 11.20

2. Mr. Bonzell wrote "*y* is a prime number" on the board. Which of the following could represent the variable *y*?

   a. 9
   b. 15
   c. 21
   d. 29

3. Joseph ran an 8-mile race. He ran $\frac{3}{4}$ of the race and walked $\frac{1}{4}$ of the race. Based on this information, which statement is true?

   | 1 mile | 1 mile | 1 mile | 1 mile | 1 mile | 1 mile | 1 mile | 1 mile |

   a. Joseph ran 5 miles and walked 3 miles.
   b. Joseph ran 3 miles and walked 5 miles.
   c. Joseph ran 6 miles and walked 2 miles.
   d. Joseph ran 2 miles and walked 6 miles.

4. Which expression is equivalent to 8 × 34?

   a. (8 × 30) × (8 × 4)
   b. (8 × 30) + (8 × 4)
   c. (8 + 30) × (8 + 4)
   d. (8 + 30) + (8 × 4)

5. Triangle ACB is a right triangle. If ∠A and ∠B are congruent, what is the measure of ∠A?

   a. 40°
   b. 45°
   c. 50°
   d. 90°

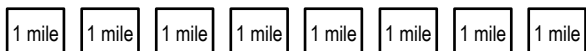
6. Cory drew a dotted line through the square as shown.

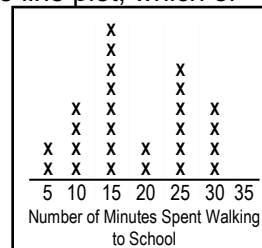   Which of the following describes the shapes he created?

   a. 2 right isosceles triangles
   b. 2 acute equilateral triangles
   c. 2 obtuse scalene triangles
   d. 2 right scalene triangles

7. The principal of Oak Elementary School made a line plot to show the number of minutes it takes students to walk to school. Based on the line plot, which of the following is true?

   a. Mode = 25 min
   b. Range = 30 min
   c. Median = 20 min
   d. Mode and Median = 15 min

   Number of Minutes Spent Walking to School

8. Which equation could have been used to create this function table?

   a. *w* = *x* − 9
   b. *w* = 9 + *x*
   c. *x* = *w* ÷ 9
   d. *x* = 9*w*

W	X
2	18
4	36
6	54
8	72

9 & 10 (2 points) Short Answer / Extended Response

Draw two different quadrilaterals that both have an area of 16 square meters. Next, determine the perimeter of each quadrilateral. Do quadrilaterals with the same area always have the same perimeter? Use your drawings to support your answer.

No, two quadrilaterals with the same area do not necessarily have the same perimeter.

(Explanations and drawings will vary.)