6th Review #89 – MUST SHOW WORK FOR EACH PROBLEM *Use Calculators*

Name_____

1. Which group of numbers is ordered from least to greatest? *(Show how you compared the values below)*
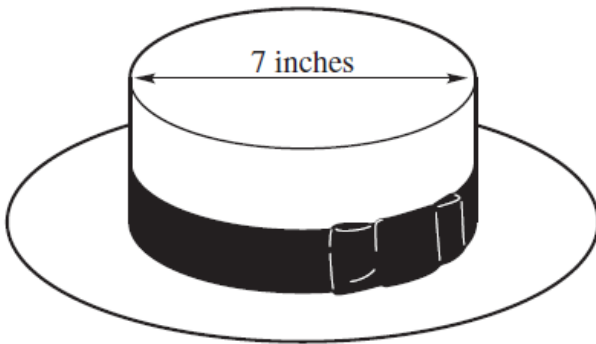
A   35%, 2 $^1/_2$, 0.2, 0.007

B   0.2, 0.007, 35%, 2 $^1/_2$

C   2 $^1/_2$, 35%, 0.2, 0.007

D   0.007, 0.2, 35%, 2 $^1/_2$

2. The top part of this hat has a diameter of 7 inches.

7 inches

If Sally wants to cover the top of the hat with fabric, about how many square inches will she need to cover? *(Write the formula; solve using the formula)*

A   38.47 inches^2 B   21.98 inches^2

C   153.86 inches^2 D   43.96 inches^2

3. Find the area of a triangle with a height of 12 and a base of 19:

4. The floor of the fish tank needs to be covered with wire. The triangular floor has an area of 80 square feet, and the base is 10 feet, what would be the height of the floor? *(Draw the shape; write the formula; then solve using formula)*

A   40 feet

B   16 feet

C   8 feet

D   20 feet

5. Evaluate the expression below. Write the answer as a mixed number. *(Use PEMDAS to solve the expression)*

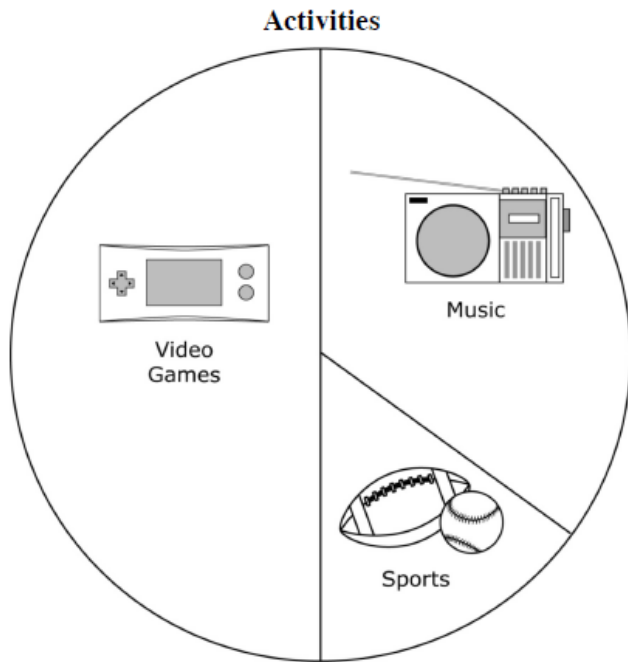$$\frac{5 \bullet 9 - (160 \div 10) + 25}{4 + 2 \bullet 3}$$

6. What quadrant on the coordinate plane would the ordered pair (–8, 5) be located? *(Show how you found the quadrant)*

A   Quadrant IV   C   Quadrant I

B   Quadrant III   D   Quadrant II

Adv. Review #89 (7th grade SOLs)
SHOW HOW YOU SOLVED EACH PROBLEM – NO CALCULATORS!

7.

Activities

There are 24 students in a classroom. How many students like video games the most?

A. 10   B. 12   C. 24

8.

$$\frac{-12 + -6 \cdot 1^2}{-2}$$

9.

Use the expression below to answer the question.

$$3 \times [(2 \times 6 - 5) + (8 \div 4)] - 1$$

What is the value of the expression?

A. 9   B. 11   C. 26   D. 32

10. If the temperature is -24 degrees at 5:00pm, and then the temperature is 2 degrees at 7:00 pm, by how much has the temperature risen?