6th Review #81 – WORK MUST BE SHOWN FOR EACH PROBLEM – NO CALCULATORS (except on #1,2)

1. What axis is the ordered pair (0,9) located on? (Sketch a coordinate plane in order to prove your answer.)

A The x-axis

B The y-axis

C The z-axis

D The origin

2. Janice has a circular pool that needs a cover. The diameter of the pool is 16 meters. About how many square feet will she need to cover? *(Draw the shape & write formula)*

3. Which of the following is 5% written as a decimal and fraction? *(Show how you changed the percent to a fraction)*

A $^1/_5$, 0.05   C $^1/_{20}$, 0.005

B $^1/_5$, 0.5   D $^1/_{20}$, 0.05

Name_____

4. Find the quotient: $^7/_8 \div {}^3/_4$
    (Show KSF)

A $^{21}/_{32}$ C $^6/_7$

B $1^{11}/_{32}$ D $1\,^1/_6$

5. Choose the scenarios that demonstrate a proportional relationship between the items being purchased and the total cost:

Brian rents a movie for $1.25 per day.
Zach pays $2.95 per gallon for gasoline.
Fred rents a bike for $5.00 plus $3.00 per day
Mona pays $0.18 per pound for the first 100 pounds of corn, and then $0.13 per pound for any amount over 100 pounds.
Jayden buys apples for $0.30 each.

6. Order from greatest to least: *(show work)*

|-15| 6 |5| -2   0   -10

Adv. Review #81 (7ᵗʰ grade SOLs)
  SHOW HOW YOU SOLVED EACH PROBLEM – NO CALCULATORS!

7. Solve.

$$(-1)^3$$

8. If the temperature is -38 degrees outside at 7:00pm, and then at 6:00am the temperature is 12 degrees, what is the change in temperature?

9.

$4 + (-3) =$

A. -7 B. -1 C. 1 D. 7

10. If 169, 196, 225, 256... is the pattern, what is the next perfect square number? Show how you know.