

6th Review #55 – WORK MUST BE SHOWN
FOR EACH PROBLEM – NO CALCULATORS

1. Which of the following is true? (*Show work*)

A $0.09 > 90\%$

B $\frac{3}{5} = 35\%$

C $0.8 > \frac{3}{8}$

D $12\% = \frac{1}{12}$

2. Find the quotient: $1.548 \div 0.03$
(*Show how you found the quotient*)

3. Write the following expressions:

Five less than a number y

Five less than the product of 6 and y

The product of 6 and y decreased by 5

The quotient of 6 and y decreased by 5

Name _____

4. Benny collects pennants. He has thirty NFL pennants, fifty MLB pennants, and seventy NBA pennants. What is the ratio of MLB pennants to the total? (*Show how you found the ratio – simplest form*)

A $\frac{1}{50}$

B $\frac{1}{3}$

C $\frac{1}{5}$

B $\frac{1}{2}$

5. Solve the expression below. (*Show "GEMDAS"*)

$$(8 \bullet 4 \div 2) \div 4 + 7^3 - 56$$

6. Model to solve: $6 \bullet \frac{4}{5}$

Adv. Review #55 (7th grade SOLs)

SHOW HOW YOU SOLVED EACH PROBLEM – NO CALCULATORS!

7. The highest recorded temperature in Arkansas is 120 degrees Fahrenheit. The lowest recorded temperature is -29 degrees Fahrenheit. What is the difference from the high temperature to the low temperature?

8. The number 169 is a perfect square number. Draw a square in the space provided that proved that 169 is a perfect square.

9. Using problem #8, solve the following:

$$\sqrt{169} = \underline{\hspace{2cm}}$$

10. Which expression is equal to 32?

A. $(36 - 6) \div 3 \cdot 1 + 1$

B. $(36 - 6) \div 3 \cdot (1 + 1)$

C. $36 - 6 \div 3 \cdot 1 + 1$

D. $36 - (6 \div 3) \cdot (1 + 1)$