

**6th Review #23 – WORK MUST BE SHOWN FOR EACH PROBLEM – NO CALCULATORS**

1. The ratio of boys to girls in Mr. Stipe's class is 14:18. What would be the ratio of students in his class to the girls in his class? *(Show work!)*

- A    **16:9**                      B    **7:9**  
C    **9:16**                      D    **16:7**

2. Which of the following is ordered from least to greatest? *(Show how you changed & compared the numbers)*

- A    **65%, .02,  $\frac{4}{25}$**   
B    **.02,  $\frac{4}{25}$ , 65%**  
C     **$\frac{4}{25}$ , 65%, .02**  
D    **.02, 65%,  $\frac{4}{25}$**

3. Which of the following is true? *(Show how you compared the numbers)*

- A    **15% <  $\frac{1}{5}$  < 0.7**  
B    **0.8 <  $\frac{1}{2}$  < 30%**  
C     **$\frac{3}{10}$  < 50% < 0.4**  
D    **60% < 0.07 <  $\frac{1}{4}$**

Name \_\_\_\_\_

4. Brenda earned \$30 last week for yard work. She gave  $\frac{1}{3}$  of the money she earned to United Way. How much money did she have left? *Draw a picture or show how you found the amount of \$)*

- A    **\$20**  
B    **\$30**  
C    **\$10**  
D    **\$5**

5. Which of the following shows 24% written as a fraction and a decimal? *(Show how you found the fraction & decimal)*

- A     **$\frac{1}{24}$ , 0.24**  
B     **$\frac{6}{25}$ , 0.24**  
C     **$\frac{24}{10}$ , 0.024**  
D     **$\frac{2}{4}$ , 2.4**

6. James bought 4 science fiction books on EBay for \$10.00. Stacy bought 7 books on EBay for \$13.30. How much more did James pay for **each** of his books than Stacy paid for each of his books? *(Show how you found the price of each book)*

- A    **\$3.30**  
B    **\$23.30**  
C    **\$0.60**  
D    **\$2.50**

**Adv. Review #23 (7<sup>th</sup> grade SOLs)**

**SHOW HOW YOU SOLVED EACH PROBLEM – NO CALCULATORS!**

**7. Model the following expression with counter chips (+, -); then solve.**

$$-5 + 5$$

**8. Solve the following.**

$$-3(5) = \underline{\hspace{2cm}}$$

$$-20(-40) = \underline{\hspace{2cm}}$$

$$15(-2) = \underline{\hspace{2cm}}$$

$$6(20) = \underline{\hspace{2cm}}$$

**9.**

One morning, the temperature was  $5^\circ$  below zero. By noon, the temperature rose  $20^\circ$  Fahrenheit (F) and then dropped  $8^\circ$  F by evening. What was the evening temperature?

- A.  $17^\circ$  below zero      B.  $15^\circ$  below zero  
C.  $12^\circ$  above zero      D.  $7^\circ$  above zero

**10. Solve the following, if**

$$\bullet = -1 \qquad \circ = 1$$

$$\begin{array}{cccc} \bullet & \bullet & \circ & \circ & \circ & \circ \\ \bullet & & \circ & \circ & & \circ \end{array}$$