Name: _____ Date: _____

Aim: How can we review for the Unit 2 Test?

1. What is the decimal equivalent of $\frac{8}{45}$?

$\boxed{0.1\overline{7}}$

$0.17\overline{7}$

$45\overline{)8.000}$

45

350

315

350

315

35

2. Which number(s) below are equivalent to 7.15? Circle all that apply.

I. $\frac{143}{20} = 7.15$

$7\frac{3}{20} = 7\frac{15}{100}$

~~II.~~ 71.5%

.715

III. $7\frac{3}{20}$ $7\frac{15}{100}$

3. State the **sign** of the numerical expressions when simplified. (*Hint: You do not need to evaluate*)

$(\frac{1}{3})(\frac{3}{15}) \div (-1.5)$

$(+) \div (-)$

$\boxed{-}$

$(0.3)(-0.2)^2$

$(+)(+)$

$\boxed{+}$

$\frac{1}{5} - 6\frac{1}{3}$

$\frac{1}{5} + (-6\frac{1}{3})$

$\boxed{-}$

$-10.5 - 20$

$-10.5 + -20$

$\boxed{-}$

4. $\frac{1}{2} + 0.6 - (-3\frac{2}{5})$

$\frac{1}{2} + 0.6 - (-3\frac{2}{5})$

$0.5 + 0.6 - (-3.4)$

$1.1 - -3.4$

$1.1 + 3.4$

4.5 or $4\frac{1}{2}$

5. Evaluate $\frac{a+b}{c}$ when $a = \frac{1}{4}$ $b = -\frac{3}{5}$ $c = \frac{1}{2}$

$\frac{\frac{1}{4} + \frac{-3}{5}}{\frac{1}{2}}$

$\left(\frac{1}{4} + \frac{-3}{5}\right) \div \frac{1}{2}$

$\left(\frac{5}{20} + \frac{-12}{20}\right)$ $\frac{-7}{20} \div \frac{1}{2}$

$\frac{-7}{\cancel{20}_{10}} \times \frac{\cancel{2}^{1}}{1} = \boxed{\frac{-7}{10}}$

6. John spent \$32 on supplies for the school dance. By the end of the day, he had sold \$15.50 worth of tickets to the dance. What was his profit or loss for the day?

$-32 + 15.50$

$-\$16.50$ or loss of \$16.50

7. A dolphin is 30.5 feet below sea level. It swims 10.5 feet higher. What is the dolphin's elevation?

$-30.5 + 10.5$

-20 ft. or 20 feet below sea level

8. Order the following numbers from least to greatest.

$-\frac{9}{4}$ 225% $\frac{1}{5}$ -2.5 $0.\overline{2}$ 0.225

-2.25 2.25 $.2$

$-2.5, -\frac{9}{4}, \frac{1}{5}, 0.\overline{2}, .225, 225\%$.