

Algebra 0507**Chapter 2****WS #1**

Name _____

Use an X to indicate the sets to which each number belongs.

	Natural	Whole	Integer	Rational	Irrational	Real
$-\frac{5}{3}$						
$2\frac{1}{5}$						
8						
$\frac{17}{2}$						
$\sqrt{49}$						
-9.74						
$\sqrt{15}$						
-23.874...						
$-\frac{3}{8}$						
0						
-4						
-57.532						
25						
$\overline{7.125}$						
777						

Write each rational number as a fraction (either proper or improper – not mixed) where the numerator and denominator are each integers.

1. 0.75	2. 0.2	3. $8\frac{2}{5}$	4. $-6\frac{8}{9}$
5. -100	6. 0.234	7. 7.5	8. -12

Write a decimal for fraction or mixed number. Indicate repeating digits with a bar.

1. $\frac{4}{10}$	2. $\frac{3}{7}$	3. $5\frac{1}{6}$	4. $\frac{8}{5}$
5. $-3\frac{2}{5}$	6. $\frac{7}{11}$	7. $-3\frac{3}{7}$	8. $\frac{8}{13}$

Represent each of the following by a positive or negative rational number.

1. A temperature of 6 degrees above zero _____
2. A temperature of 3 degrees below zero _____
3. An elevation of 462 meters below sea level _____
4. An elevation of 6070 meters above sea level _____
5. A deposit of \$76.20 in a checking account _____
6. A withdrawal of \$155 from a savings account _____
7. A weight gain of 7 pounds _____
8. A paycheck deduction of \$5.25 _____
9. A temperature rise of 5.7 degrees _____
10. A profit of \$750 _____