**Unit 2 Study Guide: Operations with Rational Numbers**

1. Order the numbers from least to greatest, then place on a number line:

–13.5, 16, 3.21, –20, ½, -3, 15, -2.25, -14

2. Find these sums and differences.

|  |  |  |
| --- | --- | --- |
|  | 1. -14 – (-15) | 1. = |
|  | e) | f) 2.2 + (-16) + (-8)= |

g) h) i)

j) 2 k) l) 9

3. Mary’s credit card statement showed that she owed $400. She made a payment of $320.50, and then she charged $29.75 for gasoline. She returned a pair of boots for $46.20 and then charged $14.80 for lunch. What is her new balance on her Credit Card?

4. Glen brought $38 with him on a family vacation. He spent of his money on presents for his friends. How much money did Glen spend buying presents for his friends?

5. Simplify the following expressions.

|  |  |  |  |
| --- | --- | --- | --- |
| a. |  | b. |  |
| c |  | d. |  |
| e. |  | f. |  |

g. 3 h**.**

6. Covert these decimals to fractions (don’t simplify – save your energy)

1. .28 b. 1.4

7. Convert these fractions to decimals

a. b.

8. Choose the symbol that makes the following number statements true: < > =

1. -4.5 4.5 b.

c. 2.70