- IV. Distance on a Number Line
  - 1. Simplify the following.
    - |-4| =
    - -|-3| =
    - $-2|3^2 10| =$
  - Find the distance between the two points -9 and -3 on a number line.
  - 3. Write an expression for finding the distance between -11

and -2 on a number line.

## V. Operations on Rational Numbers

- 1. Solve:  $\frac{3(4-5^2)}{6} 6 =$
- 2. Solve:  $-2\left(2-\frac{3}{4}\right)+3^{0}=$
- 3. Solve:  $3\left(\frac{1}{2}\right) \div 3\frac{1}{2} =$
- VI. Squares and Square Roots of Positive Rational Numbers 1. Find  $\sqrt{9}$ .
  - 2. Find  $\sqrt{24}$ .
  - 3. Find  $-4^2$ .

- 4. Find  $4^{\frac{3}{2}}$ . 5. Find  $\left(-\frac{3}{4}\right)^{2}$ .
- VII. Cubes and Cube Roots of Rational Numbers1. Find 6<sup>3</sup>.
  - 2. Find  $(-4)^3$ .
  - 3. Find  $\sqrt[3]{8}$ .
  - 4. Find  $\sqrt[3]{16}$ . Express your answer in simplest radical form.
  - 5. Find  $(-8)^{\frac{2}{3}}$ .
- VIII. Undefined Value Over the Set of Real Numbers 1. Solve  $\frac{-3}{(8-2^3)}$  over the set of real numbers.
  - 2. Solve  $\sqrt{2^3 3^2}$  over the set of real numbers.
  - 3. Evaluate  $\sqrt{x 3x}$  over the set of real numbers if x = 1.
  - 4. Evaluate  $\frac{x}{x^2-9}$  over the set of real numbers if x = -3.