## **Rational Numbers**

Rational Number - a number that can be written as a quotient of two integers.

$$\frac{1}{2} = \frac{5}{4}$$

$$\frac{12}{3} = \frac{5}{4}$$

$$\frac{12}{3}$$

Directions: Write each number as a quotient of two integers.

$$96 = 96 = 2.2.2.2.3 = 24$$

$$100 = 2.2.5.5$$

$$-3\frac{4}{7} = -3\frac{5}{7}$$

$$10x = 4.\overline{4}$$
  
-  $(x = .\overline{4})$ 

$$\begin{array}{ccc}
10x &= & \cancel{1}\cancel{A} \\
-x &= & \cancel{A}
\end{array}$$

$$\begin{array}{ccc}
9x &= & \cancel{4} \\
9 & & 9
\end{array}$$

$$x = \frac{4}{9}$$

$$100 x = 12.\overline{12}$$
  
- ( x = .  $\overline{12}$ )

$$(x = . \overline{12}) \qquad \qquad 99$$

$$100x = 12.\overline{12} \qquad X = 2.2.$$

$$x = \frac{4}{33}$$

$$X = \underbrace{5 \cdot 2 \cdot 2}_{11 \cdot 2 \cdot 3}$$

$$X = \underbrace{5}_{11}$$

7.  $.01\overline{6}$