

$$\frac{1}{9} = 0.1\bar{11}$$

$$9 \times \frac{1}{9} = 9 \times 0.1\bar{11}$$

$$1 = .99\bar{9}$$

$$4 \overline{) 15} \\ \underline{12} \\ 3$$

$$\left( 3 \frac{3}{4} \right)$$

11.2

$$4 \overline{) 15} \\ \underline{8} \\ 7$$

$$\left( \frac{27}{4} \right)$$

0.9999999999999999

$$1 \overline{) 1.000}$$

$$\underline{0}$$

$$10$$

$$\underline{9}$$

$$10$$

$$\underline{9}$$

$$10$$

$$\underline{9}$$

$$\underline{1}$$

1.9999999999999999  
 2.9999999999999999  
 3.9999999999999999  
 4.9999999999999999

$$\left\langle \begin{array}{l} \frac{1}{3} + \frac{1}{3} + \frac{1}{3} = \frac{3}{3} = 1 \\ \overline{.3} + \overline{.3} + \overline{.3} = \overline{.9} \end{array} \right\rangle =$$

Let  $x = \overline{0.9}$

$$\begin{array}{r} 10x = 9.\overline{9} \\ - \quad x = 0.\overline{9} \\ \hline 9x = 9 \\ \frac{9}{9} = \frac{9}{9} \end{array}$$

$x = 1$

$$\frac{1}{9} = \overline{.1}$$

$$\frac{2}{9} = \overline{.2}$$

$$\frac{3}{9} = \overline{.3}$$

$$\frac{9}{9} = \overline{.9}$$