

Name:

Answers!

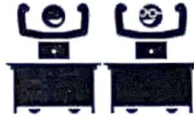
Class:



Communication



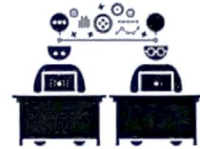
Successful Partnership



Encouragement



Solving Problem Together



Collaboration

Question 01

Part A What is the fraction equivalent to  $0.454545454545\dots$  or  $0.\overline{45}$  ?

$$\begin{array}{r} 100x = 45.4545\dots \\ - x = 0.4545\dots \\ \hline \end{array}$$

$$99x = 45$$

$$x = \frac{45}{99} \div 9$$
$$x = \frac{5}{11} \div 1$$

$$\frac{5}{11}$$

Part B What is the fraction equivalent to  $0.88888888888888\dots$  or  $0.\overline{8}$  ?

$$\begin{array}{r} 10x = 8.888\dots \\ - x = 0.888\dots \\ \hline \end{array}$$

$$9x = 8$$

$$x = \frac{8}{9}$$

Question 02

Part A What is the fraction equivalent to  $0.7272727272727272\dots$  or  $0.\overline{72}$  ?

$$\begin{array}{r}
 100x = 72.7272\dots \\
 - x = 0.7272\dots \\
 \hline
 99x = 72
 \end{array}$$

$$x = \frac{72}{99} \div 9 \div 9 \quad \left( \frac{8}{11} \right)$$

Part B What is the fraction equivalent to  $0.5555555555555555\dots$  or  $0.\overline{5}$  ?

$$\begin{array}{r}
 10x = 5.555\dots \\
 - x = 0.555\dots \\
 \hline
 9x = 5
 \end{array}$$

$$x = \frac{5}{9} \quad \left( \frac{5}{9} \right)$$

Part C What is the fraction equivalent to  $0.1818181818181818\dots$  or  $0.\overline{18}$  ?

$$\begin{array}{r}
 100x = 18.1818\dots \\
 - x = 0.1818\dots \\
 \hline
 99x = 18
 \end{array}$$

$$x = \frac{18}{99} \div 9 \div 9 \quad \left( \frac{2}{11} \right)$$

Part D What is the fraction equivalent to  $0.5333333333333333\dots$  or  $0.5\overline{3}$  ?

$$\begin{array}{r}
 100x = 53.333\dots \\
 - 10x = 5.333\dots \\
 \hline
 90x = 48
 \end{array}$$

$$x = \frac{48}{90} \div 6 \div 6 \quad \left( \frac{8}{15} \right)$$