

Converting Fractions and Decimals Exit Quiz**Math 8****ANSWERS****Multiple choices**1. The fraction $-4\frac{14}{70}$ as a decimal is:

a.) -4.2

b.) -4.02

c.) -4.7

d.) -4.07

2. The decimal 4.67 as a fraction is:

a.) $4\frac{67}{1,000}$

b.) $4\frac{67}{100}$

c.) $\frac{4,067}{1,000}$

d.) $\frac{467}{1,000}$

3. The decimal $0.\overline{46}$ as a fraction is:

a.) $\frac{46}{100}$

b.) $\frac{46}{10}$

c.) $\frac{46}{1,000}$

d.) $\frac{46}{99}$

4. Write $0.0\overline{12}$ as a fraction.

$$0.0\overline{12} = 0.0121212 \dots \dots$$

$$1,000x = 12.121212 \dots \dots$$

$$-10x = 0.121212 \dots \dots$$

$$990x = 12$$

$$x = \frac{12}{990} = \frac{6 * 2}{6 * 165}$$

$$x = \frac{2}{165}$$

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5. Write $0.\overline{142857}$ as a fraction.

$$0.\overline{142857} = 0.142857142857142857 \dots$$

$$\begin{array}{r} 1,000,000x = 142,857.142857142857 \dots \\ - \quad x = \quad \quad 0.142857142857 \dots \\ \hline \end{array}$$

$$999,999x = 142,857$$

$$x = \frac{142,857}{999,999} = \frac{9 * 1 * 15,873}{9 * 7 * 15,873}$$

$$x = \frac{1}{7}$$