Math Practice - Grade 8

M1 Real numbers - Write a repeating decimal as a fraction

M1 8.NS.A.1, 8.NS.A.2

Name: _____ Date: _____

Write the repeating decimal as a fraction in lowest terms.

Example: Write 0.666... as a fraction in lowest terms.

How: A repeating decimal with one repeating digit is that digit over 9, and with two repeating digits it is the two digits over 99. Reduce the fraction to lowest terms.

$\frac{2}{3}$

1 **Write 0.6666... as a fraction in lowest terms.**

2 **Write 0.777... as a fraction in lowest terms.**

3 **Write 0.9292... as a fraction in lowest terms.**

4 **Write 0.111... as a fraction in lowest terms.**

5 **Write 0.888... as a fraction in lowest terms.**

6 **Write 0.6161... as a fraction in lowest terms.**

7 **Write 0.7979... as a fraction in lowest terms.**

8 **Write 0.9595... as a fraction in lowest terms.**

9 **Write 0.333... as a fraction in lowest terms.**

10 **Write 0.7676... as a fraction in lowest terms.**

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Name: _____ Date: _____

Write the repeating decimal as a fraction in lowest terms.

Example: Write 0.3232... as a fraction in lowest terms.

How: A repeating decimal with one repeating digit is that digit over 9, and with two repeating digits it is the two digits over 99. Reduce the fraction to lowest terms.

$$\frac{32}{99}$$

1 **Write 0.666... as a fraction in lowest terms.**

2 **Write 0.5959... as a fraction in lowest terms.**

3 **Write 0.333... as a fraction in lowest terms.**

4 **Write 0.555... as a fraction in lowest terms.**

5 **Write 0.2828... as a fraction in lowest terms.**

6 **Write 0.444... as a fraction in lowest terms.**

7 **Write 0.222... as a fraction in lowest terms.**

8 **Write 0.777... as a fraction in lowest terms.**

9 **Write 0.5151... as a fraction in lowest terms.**

10 **Write 0.3636... as a fraction in lowest terms.**

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Name: _____ Date: _____

Write the repeating decimal as a fraction in lowest terms.

Example: Write 0.4949... as a fraction in lowest terms.

How: A repeating decimal with one repeating digit is that digit over 9, and with two repeating digits it is the two digits over 99. Reduce the fraction to lowest terms.

$$\frac{49}{99}$$

1 **Write 0.2424... as a fraction in lowest terms.**

$$\frac{\square}{\square}$$

2 **Write 0.666... as a fraction in lowest terms.**

$$\frac{\square}{\square}$$

3 **Write 0.7979... as a fraction in lowest terms.**

$$\frac{\square}{\square}$$

4 **Write 0.1212... as a fraction in lowest terms.**

$$\frac{\square}{\square}$$

5 **Write 0.333... as a fraction in lowest terms.**

$$\frac{\square}{\square}$$

6 **Write 0.9191... as a fraction in lowest terms.**

$$\frac{\square}{\square}$$

7 **Write 0.999... as a fraction in lowest terms.**

$$\frac{\square}{\square}$$

8 **Write 0.6666... as a fraction in lowest terms.**

$$\frac{\square}{\square}$$

9 **Write 0.444... as a fraction in lowest terms.**

$$\frac{\square}{\square}$$

10 **Write 0.7878... as a fraction in lowest terms.**

$$\frac{\square}{\square}$$