



Decimals (Repeating) and Conversion to Fractions - Intro

1 Which answer represents this repeating decimal correctly?

0.999

A

$9.\overline{9}$

B

$0.\overline{9}$

2 Which answer represents this repeating decimal correctly?

4.333

A

$4.\overline{39}$

B

$4.\overline{3}$

3 What digit(s) repeat in this decimal?

0.444

A

4

B

46

4 What digit(s) repeat in this decimal?

1.737373

A

3

B

73

5 Expand this repeating decimal

$0.\overline{7}$

A

7.777

B

0.777

6 What common fraction is equivalent to this decimal?

0.333

A

$\frac{1}{3}$

B

$\frac{2}{6}$

7 Expand this repeating decimal

$2.\overline{7}$

A

2.777

B

2.72727

8 What common fraction is equivalent to this decimal?

6.777

A

$6\frac{7}{11}$

B

$6\frac{7}{9}$



Decimals (Repeating) and Conversion to Fractions - Intro

- 9** What digit(s) repeat in this decimal?

$$0.\overline{5}$$

A

5

B

56

- 10** What digit(s) repeat in this decimal?

$$6.8\overline{1}$$

A

81

B

1

- 11** What common fraction is equivalent to this decimal?

$$0.1\overline{6}$$

A

$$\frac{1}{6}$$

B

$$\frac{5}{6}$$

- 12** What common fraction is equivalent to this decimal?

$$2.\overline{6}$$

A

$$2\frac{9}{11}$$

B

$$2\frac{2}{3}$$

- 13** Which repeating decimal represents this common fraction correctly?

$$\frac{1}{3}$$

A

$$0.\overline{3}$$

B

$$0.\overline{34}$$

- 14** Which repeating decimal represents this common fraction correctly?

$$1\frac{2}{11}$$

A

$$1.\overline{18}$$

B

$$\overline{1.18}$$

- 15** What digit(s) repeat for this common fraction?

$$\frac{2}{6}$$

A

37

B

3

- 16** What digit(s) repeat for this common fraction?

$$1\frac{1}{11}$$

A

19

B

9



Decimals (Repeating) and Conversion to Fractions - Intro

- 17** Expand this common fraction into a repeating decimal

$$\frac{5}{6}$$

A

$$8.8333$$

B

$$0.8333$$

- 18** Expand this common fraction into a repeating decimal

$$5\frac{1}{11}$$

A

$$5.666$$

B

$$5.999$$

- 19** Set up the two equations that will help you change this repeating decimal into a fraction

$$q = 0.\overline{6}$$

- 20** Set up the two equations that will help you change this repeating decimal into a fraction

$$y = 6.\overline{7}$$

- 21** Set up and simplify the equation that will help you change this repeating decimal into a fraction

$$q = 0.\overline{4}$$

A

$$10q = 4$$

B

$$9q = 4$$

- 22** Set up and simplify the equation that will help you change this repeating decimal into a fraction

$$y = 5.\overline{4}$$

A

$$9y = 49$$

B

$$9y = 50$$

- 23** Turn this repeating decimal into a fraction (don't simplify)

$$w = 0.\overline{5}$$

A

$$w = \frac{5}{10}$$

B

$$w = \frac{5}{9}$$

C

$$w = \frac{5}{19}$$

D

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

- 24** Turn this repeating decimal into a fraction (don't simplify)

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

A

$$t = \frac{9}{84}$$

B

$$t = \frac{84}{8}$$

C

$$t = \frac{84}{9}$$

D

$$t = \frac{84}{10}$$



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- 25** Turn this repeating decimal into a fraction (simplify your answer)

$$r = 0.\overline{7}$$

A $r = \frac{7}{8}$

B $r = \frac{7}{9}$

C $r = \frac{8}{9}$

D $r = \frac{9}{7}$

- 26** Turn this repeating decimal into a fraction (simplify your answer)

$$w = 6.\overline{3}$$

A $w = \frac{57}{8}$

B $w = \frac{16}{3}$

C $w = \frac{19}{3}$

D $w = \frac{3}{19}$

- 27** Set up the two equations that will help you change this repeating decimal into a fraction

$$y = 0.\overline{71}$$

- 28** Set up the two equations that will help you change this repeating decimal into a fraction

$$p = 2.\overline{73}$$

- 29** Set up and simplify the equation that will help you change this repeating decimal into a fraction

$$w = 0.\overline{53}$$

A $99w = 53$

B $99w = 62$

- 30** Set up and simplify the equation that will help you change this repeating decimal into a fraction

$$x = 5.\overline{82}$$

A $100x = 577$

B $99x = 577$

- 31** Turn this repeating decimal into a fraction (don't simplify)

$$w = 0.\overline{54}$$

A $w = \frac{99}{54}$

B $w = \frac{63}{99}$

C $w = \frac{54}{99}$

D $w = \frac{53}{99}$

- 32** Turn this repeating decimal into a fraction (don't simplify)

$$y = 6.\overline{80}$$

A $y = \frac{674}{99}$

B $y = \frac{99}{674}$

C $y = \frac{673}{99}$

D $y = \frac{674}{109}$