



Decimals (Repeating) and Conversion to Fractions - Practice

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

$$y = 0.\overline{1}$$

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

$$y = 7.\overline{8}$$

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

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

A

$$9y = 14$$

B

$$9y = 5$$

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

$$n = 7.\overline{3}$$

A

$$9n = 66$$

B

$$9n = 65$$

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

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

A

$$t = -\frac{2}{9}$$

B

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

C

$$t = \frac{9}{7}$$

D

$$t = \frac{7}{9}$$

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

$$p = 7.\overline{8}$$

A

$$p = \frac{71}{9}$$

B

$$p = \frac{80}{9}$$

C

$$p = \frac{70}{9}$$

D

$$p = \frac{71}{19}$$

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

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

A

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

B

$$t = -\frac{5}{9}$$

C

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

D

$$t = \frac{2}{5}$$

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

$$w = 3.\overline{1}$$

A

$$w = \frac{28}{9}$$

B

$$w = \frac{28}{19}$$

C

$$w = 3$$

D

$$w = \frac{37}{9}$$



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

$$y = 0.\overline{19}$$

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

$$p = 3.\overline{68}$$

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

$$q = 0.\overline{86}$$

A $99q = 86$

B $89q = 86$

- 12** 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 $99x = 577$

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

$$q = 0.\overline{34}$$

A $q = \frac{34}{99}$

B $q = \frac{25}{99}$

C $q = \frac{34}{89}$

D $q = \frac{43}{99}$

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

$$t = 6.\overline{84}$$

A $t = \frac{678}{100}$

B $t = \frac{678}{99}$

C $t = \frac{678}{109}$

D $t = \frac{99}{678}$

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

$$y = 0.\overline{67}$$

A $y = \frac{67}{89}$

B $y = \frac{67}{98}$

C $y = \frac{67}{99}$

D $y = \frac{76}{99}$

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

$$r = 2.\overline{69}$$

A $r = \frac{267}{100}$

B $r = \frac{33}{89}$

C $r = 3$

D $r = \frac{89}{33}$



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

$$q = 0.6\overline{8}$$

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

$$p = 6.5\overline{1}$$

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

$$y = 0.4\overline{9}$$

A $90y = 44$

B $90y = 45$

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

$$p = 9.7\overline{1}$$

A $90p = 874$

B $89p = 874$

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

$$y = 0.5\overline{7}$$

A $y = \frac{61}{90}$

B $y = \frac{52}{90}$

C $y = \frac{90}{52}$

D $y = \frac{52}{91}$

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

$$y = 2.4\overline{1}$$

A $y = \frac{217}{90}$

B $y = \frac{90}{217}$

C $y = \frac{216}{90}$

D $y = \frac{226}{90}$

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

$$n = 0.7\overline{2}$$

A $n = \frac{13}{20}$

B $n = \frac{32}{45}$

C $n = \frac{13}{18}$

D $n = \frac{65}{89}$

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

$$z = 6.3\overline{7}$$

A $z = \frac{287}{45}$

B $z = \frac{45}{287}$

C $z = \frac{287}{50}$

D $z = \frac{82}{13}$



Decimals (Repeating) and Conversion to Fractions - Practice

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

$$q = 0.6\overline{39}$$

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

$$p = 4.2\overline{30}$$

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

$$w = 0.3\overline{59}$$

A $989w = 356$

B $990w = 356$

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

$$r = 8.5\overline{65}$$

A $990r = 8479$

B $990r = 8480$

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

$$x = 0.4\overline{28}$$

A $x = \frac{433}{990}$

B $x = \frac{423}{990}$

C $x = \frac{424}{990}$

D $x = \frac{424}{989}$

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

$$n = 3.2\overline{78}$$

A $n = \frac{3,247}{990}$

B $n = \frac{3,246}{991}$

C $n = \frac{3,246}{989}$

D $n = \frac{3,246}{990}$

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

$$t = 0.5\overline{15}$$

A $t = \frac{511}{990}$

B $t = \frac{51}{98}$

C $t = \frac{33}{17}$

D $t = \frac{17}{33}$

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

$$r = 3.5\overline{23}$$

A $r = \frac{495}{1,744}$

B $r = \frac{3,479}{990}$

C $r = \frac{1,744}{495}$

D $r = \frac{1,163}{330}$