

Recurring Decimals to Fractions

Convert the following recurring decimals to fractions:

1) $0.\dot{3}$

9) $1.\dot{7}\dot{3}$

2) $0.\dot{5}$

10) $2.\dot{7}\dot{3}$

3) $0.\dot{7}$

11) $0.\dot{5}1\dot{3}$

4) $0.\dot{9}$

12) $0.0\dot{5}1\dot{3}$

5) $0.5\dot{3}$

13) $0.1\dot{5}1\dot{3}$

6) $0.\dot{5}\dot{3}$

14) $0.2\dot{5}1\dot{3}$

7) $0.\dot{6}\dot{3}$

15) $0.25\dot{1}\dot{3}$

8) $0.\dot{7}\dot{3}$

16) $0.251\dot{3}$

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Answers

$$1) \frac{3}{9} = \frac{1}{3}$$

$$2) \frac{5}{9}$$

$$3) \frac{7}{9}$$

$$4) \frac{9}{9} = 1$$

$$5) \frac{48}{90} = \frac{8}{15}$$

$$6) \frac{53}{99}$$

$$7) \frac{63}{99} = \frac{7}{11}$$

$$8) \frac{73}{99}$$

$$9) \frac{172}{99}$$

$$10) \frac{271}{99}$$

$$11) \frac{513}{999} = \frac{19}{37}$$

$$12) \frac{513}{9990} = \frac{19}{370}$$

$$13) \frac{1512}{9990} = \frac{28}{185}$$

$$14) \frac{2511}{9990} = \frac{93}{370}$$

$$15) \frac{2488}{9900} = \frac{622}{2475}$$

$$16) \frac{2262}{9000} = \frac{377}{1500}$$

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