



Converting Recurring Decimals to Fractions

Grade 8 Recurring Decimals Worksheet

Date: _____

Name: _____

LET'S MAKE LEARNING DECIMALS FUN

Convert Recurring Decimals to Fractions

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

8. $188.\overline{53} =$

2. $122.\overline{31} =$

9. $511.\overline{29} =$

3. $154.\overline{82} =$

10. $902.\overline{69} =$

4. $336.\overline{95} =$

11. $57.\overline{83} =$

5. $124.\overline{13} =$

12. $305.\overline{37} =$

6. $735.\overline{8} =$

13. $147.\overline{71} =$

7. $931.\overline{7} =$

14. $333.\overline{35} =$

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Concept Explanation

To solve; $325.\bar{3} = ?$

$$\text{Let } x = 325.3 \quad (1)$$

Multiply both sides by 10

$$10x = 3253.3 \quad (2)$$

Subtract: (2) – (1)

$$10x - x = 3253.3 - 325.3$$

$$9x = 2928$$

Divide both sides by 9

$$x = \frac{976}{3}$$

Answers

1. $\frac{976}{3}$

8. $\frac{18665}{99}$

2. $\frac{12109}{99}$

9. $\frac{50618}{99}$

3. $\frac{15328}{99}$

10. $\frac{29789}{33}$

4. $\frac{33359}{99}$

11. $\frac{5722}{99}$

5. $\frac{12289}{99}$

12. $\frac{30232}{99}$

6. $\frac{6623}{9}$

13. $\frac{14624}{99}$

7. $\frac{8386}{9}$

14. $\frac{33002}{99}$