



Converting Recurring Decimals to Fractions

Grade 8 Recurring Decimals Worksheet

Date: _____

Name: _____

LET'S MAKE LEARNING DECIMALS FUN

Convert Recurring Decimals to Fractions

1. $25.\overline{53} =$

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

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

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

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

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

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

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

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

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

6. $75.\overline{28} =$

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

7. $93.\overline{97} =$

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



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Concept Explanation

To solve; $25.\overline{53} = ?$

$$\text{Let } x = 25.53 \quad (1)$$

Multiply both sides by 100

$$100x = 2553.53 \quad (2)$$

Subtract: (2) - (1)

$$100x - x = 2553.53 - 25.53$$

$$99x = 2528$$

Divide both sides by 99

$$x = \frac{2528}{99}$$

Answers

1. $\frac{2528}{99}$

8. $\frac{8765}{99}$

2. $\frac{1219}{99}$

9. $\frac{524}{99}$

3. $\frac{5428}{99}$

10. $\frac{3059}{33}$

4. $\frac{3659}{99}$

11. $\frac{5726}{99}$

5. $\frac{1399}{99}$

12. $\frac{3502}{99}$

6. $\frac{7453}{99}$

13. $\frac{1457}{99}$

7. $\frac{9304}{99}$

14. $\frac{3302}{99}$