



Converting Recurring Decimals to Fractions

Grade 8 Recurring Decimals Worksheet

Date: _____

Name: _____

LET'S MAKE LEARNING DECIMALS FUN

Convert Recurring Decimals to Fractions

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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Concept Explanation

To solve; $2.\overline{53} = ?$

$$\text{Let } x = 2.53 \quad (1)$$

Multiply both sides by 100

$$100x = 253.53 \quad (2)$$

Subtract: (2) - (1)

$$100x - x = 253.53 - 2.53$$

$$99x = 251$$

Divide both sides by 99

$$x = \frac{251}{99}$$

Answers

1. $\frac{251}{99}$

8. $\frac{845}{99}$

2. $\frac{229}{99}$

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

3. $\frac{478}{99}$

10. $\frac{89}{33}$

4. $\frac{392}{99}$

11. $\frac{776}{99}$

5. $\frac{112}{99}$

12. $\frac{532}{99}$

6. $\frac{721}{99}$

13. $\frac{467}{99}$

7. $\frac{988}{99}$

14. $\frac{332}{99}$