



Converting Recurring Decimals to Fractions

Grade 8 Recurring Decimals Worksheet

Date: _____

Name: _____

LET'S MAKE LEARNING DECIMALS FUN

Convert Recurring Decimals to Fractions

1. $0.\overline{36} =$

8. $0.\overline{45} =$

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

9. $0.\overline{37} =$

3. $0.\overline{71} =$

10. $0.\overline{3} =$

4. $0.\overline{23} =$

11. $0.\overline{2} =$

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

12. $0.\overline{11} =$

6. $0.\overline{21} =$

13. $0.\overline{73} =$

7. $0.\overline{15} =$

14. $0.\overline{17} =$

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Concept Explanation

To solve; $0.\overline{36} = ?$

$$\text{Let } x = 0.36 \quad (1)$$

Multiply both sides by 100

$$100x = 36.36 \quad (2)$$

Subtract: (2) – (1)

$$100x - x = 36.36 - 0.36$$

$$99x = 36$$

Divide both sides by 99

$$x = \frac{4}{11}$$

Answers

1. $\frac{4}{11}$

8. $\frac{5}{11}$

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

9. $\frac{37}{99}$

3. $\frac{71}{99}$

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

4. $\frac{23}{99}$

11. $\frac{2}{9}$

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

12. $\frac{1}{9}$

6. $\frac{7}{33}$

13. $\frac{73}{99}$

7. $\frac{5}{33}$

14. $\frac{17}{99}$