



Converting Recurring Decimals to Fractions

Grade 8 Recurring Decimals Worksheet

Date: _____

Name: _____

LET'S MAKE LEARNING DECIMALS FUN

Convert Recurring Decimals to Fractions

1. $53.\overline{7} =$

8. $18.\overline{3} =$

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

9. $56.\overline{9} =$

3. $35.\overline{2} =$

10. $27.\overline{6} =$

4. $39.\overline{5} =$

11. $73.\overline{8} =$

5. $18.\overline{3} =$

12. $50.\overline{7} =$

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

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

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

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



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Concept Explanation

To solve; $53.\bar{7} = ?$

$$\text{Let } x = 53.7 \quad (1)$$

Multiply both sides by 10

$$10x = 537.7 \quad (2)$$

Subtract: (2) – (1)

$$10x - x = 537.7 - 53.7$$

$$9x = 484$$

Divide both sides by 9

$$x = \frac{484}{9}$$

Answers

1. $\frac{484}{9}$

8. $\frac{55}{3}$

2. $\frac{244}{9}$

9. $\frac{512}{9}$

3. $\frac{317}{9}$

10. $\frac{83}{3}$

4. $\frac{356}{9}$

11. $\frac{665}{9}$

5. $\frac{55}{3}$

12. $\frac{457}{9}$

6. $\frac{719}{9}$

13. $\frac{361}{9}$

7. $\frac{448}{9}$

14. $\frac{275}{9}$