Name

ANSWER KEY

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Writing Rational Numbers as Decimals

You can use long division to write any rational number as a decimal. When you write a rational number as a decimal, it will either terminate or repeat. Let's look at an example of each.



Try it yourself! Use long division to write each rational number as a decimal. Remember to write repeating decimals with a bar over any digits that repeat.

1. $\frac{9}{12} = $ 0.75	2. $\frac{8}{9} = 0.\overline{8}$	3. $-\frac{3}{5} = -0.6$

Keep going! Use long division to write each rational number as a decimal. Remember to write repeating decimals with a bar over any digits that repeat.

4. $-\frac{6}{11} = -0.\overline{54}$	5. $\frac{23}{30} = $ 0.76	6. $-3\frac{9}{40} = -3.225$
7. $\frac{7}{15} = 0.4\overline{6}$	8. 6 ⁷ / ₈ = <u>6.875</u>	9. $-\frac{5}{33} = -0.\overline{15}$
10. -1 ²⁹ / ₆₀ = <u>-1.483</u>	11. $-\frac{261}{40} = -6.525$	12. - $\frac{123}{50}$ = <u>-2.46</u>
13. $\frac{47}{90} = $ <u>0.52</u>	14. 4 ^{<u>19</u>} = <u>4.2375</u>	15. -8 ²⁷ = <u>-8.490</u>