Lesson 14: Converting Rational Numbers to Decimals Using Long Division

Problem Set

1. Convert each rational number into its decimal form.

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One of these decimal representations is not like the others. Why?

Enrichment:

1. Chandler tells Aubrey that the decimal value of is not a repeating decimal. Should Aubrey believe him? Explain.
2. Complete the quotients below without using a calculator, and answer the questions that follow.
   1. Convert each rational number in the table to its decimal equivalent.

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| --- | --- | --- | --- | --- |
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Do you see a pattern? Explain.

* 1. Convert each rational number in the table to its decimal equivalent.

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| --- | --- | --- | --- | --- |
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|  |  |  |  |  |

Do you see a pattern? Explain.

* 1. Can you find other rational numbers that follow similar patterns?