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Resource ID#: 42238

Primary Type: Problem-Solving Task

Converting Decimal Representations of Rational Numbers to Fraction Representations

MAFS.8.NS.1.1 requires students to "convert a decimal expansion which repeats eventually into a rational number." Despite this choice of wording, the numbers in this task are rational numbers regardless of choice of representation. For example, $0.333\overline{}$ and $\frac{1}{3}$ are two different ways of representing the same number.

Converting Decimal Representations of Rational Numbers to Fraction Representations (Word): This file includes the task and related information in Microsoft Word format.

Converting Decimal Representations of Rational Numbers to Fraction Representations (PDF): This file includes the task and related information in PDF format.

General Information

Subject(s): Mathematics

Grade Level(s): 8

Intended Audience: [Educators](#), [Students](#), [Parents](#)

Freely Available: Yes

Keywords: Converting Decimal Representations of Rational Numbers to Fraction Representations, Converting, Decimal, Representations, rational, numbers, fraction, cpalms, icpalms, illustrativemathematics.org, illustrative mathematics, tasks, mathematics, math, Florida standards, resource, free, freely available, problems-based learning, student activities

Instructional Component Type(s): [Problem-Solving Task](#)

Resource Collection: Illustrative Mathematics

Source and Access Information

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District/Organization of Contributor(s):

Is this Resource freely Available? Yes

Access Privileges: Public

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Aligned Standards

Name	Description
MAFS.8.NS.1.1:	Know that numbers that are not rational are called irrational. Understand informally that every number has a decimal expansion; for rational numbers show that the decimal expansion repeats eventually, and convert a decimal expansion which repeats eventually into a rational number.

