Lesson 1.1: Rational Numbers

Rational numbers can be written in the form of a fraction. Let's try some:

4 0.7 2.9 -0.33 -900

From fraction form, all of these numbers can be written as decimals.
(Remember, the fraction bar means _____)

Terminating Decimals
STOP, or terminate
(think: Exterminator)

Repeating Decimals
they, um...repeat.

Got It?

Wheels on some in-line skates can be removed using a $\frac{5}{32}$-in. Allen wrench. What is $\frac{5}{32}$ written as a decimal?

Compare using = ≠

a. $\frac{5}{9}$ ☐ $0.\overline{5}$

b. $\frac{13}{5}$ ☐ $2.\overline{6}$

c. $\frac{7}{6}$ ☐ $1.1\overline{6}$

d. $-\frac{5}{37}$ ☐ $-0.\overline{135}$

e. $\frac{1}{11}$ ☐ 0.09

f. $-\frac{10}{6}$ ☐ -1.67

Got It?

Elena Kagan's confirmation to the U.S. Supreme Court was historic. For the first time, 3 of the 9 justices on the court were female. What is $\frac{3}{9}$ written as a decimal?

Got It?

There are two parking lots near a concert hall. The covered parking lot is $\frac{5}{6}$ mi away. The open-air parking lot is 0.8 mi away. Which parking lot is closer to the concert hall? Explain.

1. What is $\frac{1}{8}$ written as a decimal? _____

3. The North Vista hiking trail is $\frac{11}{16}$ mi. The Scenic Overlook trail is 0.688 mi. Use $<$, $>$, or $=$ to correctly complete the statement.

$\frac{11}{16}$ ☐ 0.688

Focus Question

What does being able to express numbers in equivalent forms allow you to do?

_____

_____

_____

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