To be able to explore decimal and fraction equivalents

MathShed

Starter:

Is this statement true or false?

$$\frac{64}{200} < 0.42$$

Explain your answer.

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Activity 1:

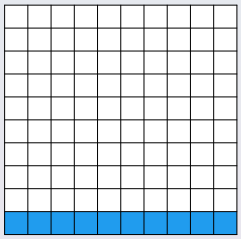
Complete the sentences below:

The whole has been divided into ___ equal parts.

Each part is worth ____.

____ parts out of ____ are shaded.

This is equivalent to ____.



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Activity 2:

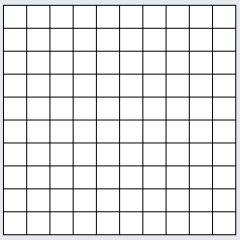
Complete the sentences below:

Shade 0.57 of the hundred square.

____ parts out of ____ are shaded.

Write 0.57 as a fraction.

0.57 = ____.



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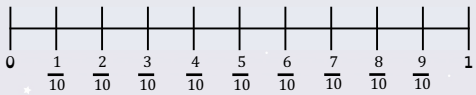
Activity 3:

Can you edit any of the fractions on the number line so that they show fractions in their simplest form?



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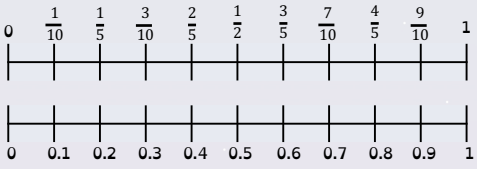
Activity 3 (continued):

What is the same and what is different about the number lines?



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Activity 4:

To convert a fraction to a decimal, you can use equivalent fractions to make the denominator 100. Use this method to find the equivalent decimals for the fractions.

a) $\frac{41}{50} = \frac{?}{100} = ?$

b) $\frac{96}{200} = \frac{?}{100} = ?$

c) $\frac{75}{300} = \frac{?}{100} = ?$

d) $\frac{200}{500} = \frac{?}{100} = ?$

e) $\frac{280}{500} = \frac{?}{100} = ?$

f) $\frac{350}{500} = \frac{?}{1000} = ?$

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Activity 5:

0.2 is equivalent to $\frac{1}{5}$ and $\frac{2}{10}$.

Are these the only fractions that are equivalent to 0.2? How many fractions can you find?

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Evaluation:

Astrobee and Yasmin are working out the decimal equivalent of $\frac{40}{200}$.

Who do you agree with? Explain your answer.