

To be able to explore the relationship between decimals and fractions greater than 1

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Starter:
Expressing the representations below as both fractions and decimals, what's the same and what's different?

Explain your answer.

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Activity 2:
Referring to the representation, complete the statement below.

a) = =
b) = =
c) = =
d) = =

Can you think of a decimal (and fraction) that comes between b) and c)? One that doesn't?

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Activity 3:
Express the representation shown below as a decimal, a decimal in its expanded form, a fraction, a fraction in its expanded form and in worded form.

decimal:
decimal (expanded):
fraction:
fraction (expanded):
worded form:

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Activity 4:
Select three digit cards. The first will be your ones digit, the second will be your tenths digit, the third will be your hundredths digit. Then, complete the following:

decimal:
decimal (expanded):
fraction:
fraction (expanded):
worded form:

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Activity 5:
Use the digits 1, 4 and 7 to complete the following decimal number.
Make as many numbers as you can, expressing them as decimals, mixed numbers and in worded form.

decimal:
fraction:
worded form:

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Evaluation:

When I convert fractions to decimals, I just place the numerator after a decimal point:
 $\frac{87}{100} = 0.87$

Astrobee's strategy doesn't work all of the time.
Provide examples to explain why Astrobee's strategy doesn't always work.