

L.O: To convert between  
improper fractions and  
mixed numbers.

Wednesday 18th March 2020

Use slides 11-22 to aid  
discussion

L.O: To convert between improper fractions and mixed numbers.

Below is a proper fraction. Can you explain how you know?

$$\frac{5}{6}$$

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Below is an improper fraction. Can you explain how you know?

$$\frac{15}{6}$$

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Below is a mixed number. Can you explain how you know?

$$2 \frac{1}{6}$$

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$$\frac{15}{6}$$

is an improper fraction because the numerator is larger than the denominator.

$$\frac{5}{6}$$

is a proper fraction because the numerator is smaller than the denominator.

$$2\frac{1}{6}$$

is a mixed number because it includes a whole number and a proper fraction.

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$$\frac{15}{6}$$

Create the fraction using multilink cubes.

How does your creation show this?

What else could it show?

I used \_\_\_\_\_ cubes to make wholes made of \_\_\_\_\_ equal parts.  
I created \_\_\_\_\_ wholes and \_\_\_\_\_.

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$$\frac{15}{6}$$

can be written as a mixed number. Use your multilink creation to write it as a mixed number.

$$\frac{15}{6} =$$



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Using the multilink cubes, can you convert the following improper fractions into mixed numbers?

$$\frac{12}{8}$$

$$\frac{5}{3}$$

$$\frac{19}{4}$$

$$\frac{20}{5}$$

**Thinking Deeply:**  
Is this one a mixed number?

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Create the mixed number using multilink cubes.

$$2 \frac{1}{6}$$

How does your creation show this?

What else could it show?

I used \_\_\_\_ cubes to make \_\_\_\_ wholes and \_\_\_\_\_. I can also use this to make an improper fraction of \_\_\_\_\_.

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$$2 \frac{1}{6}$$

can be written as an improper fraction. Use your multilink creation to write it as a fraction.

$$2 \frac{1}{6} =$$

L.O: To convert between improper fractions and mixed numbers.

Using the multilink cubes, can you convert the following mixed numbers into improper fractions?

$$2\frac{3}{8}$$

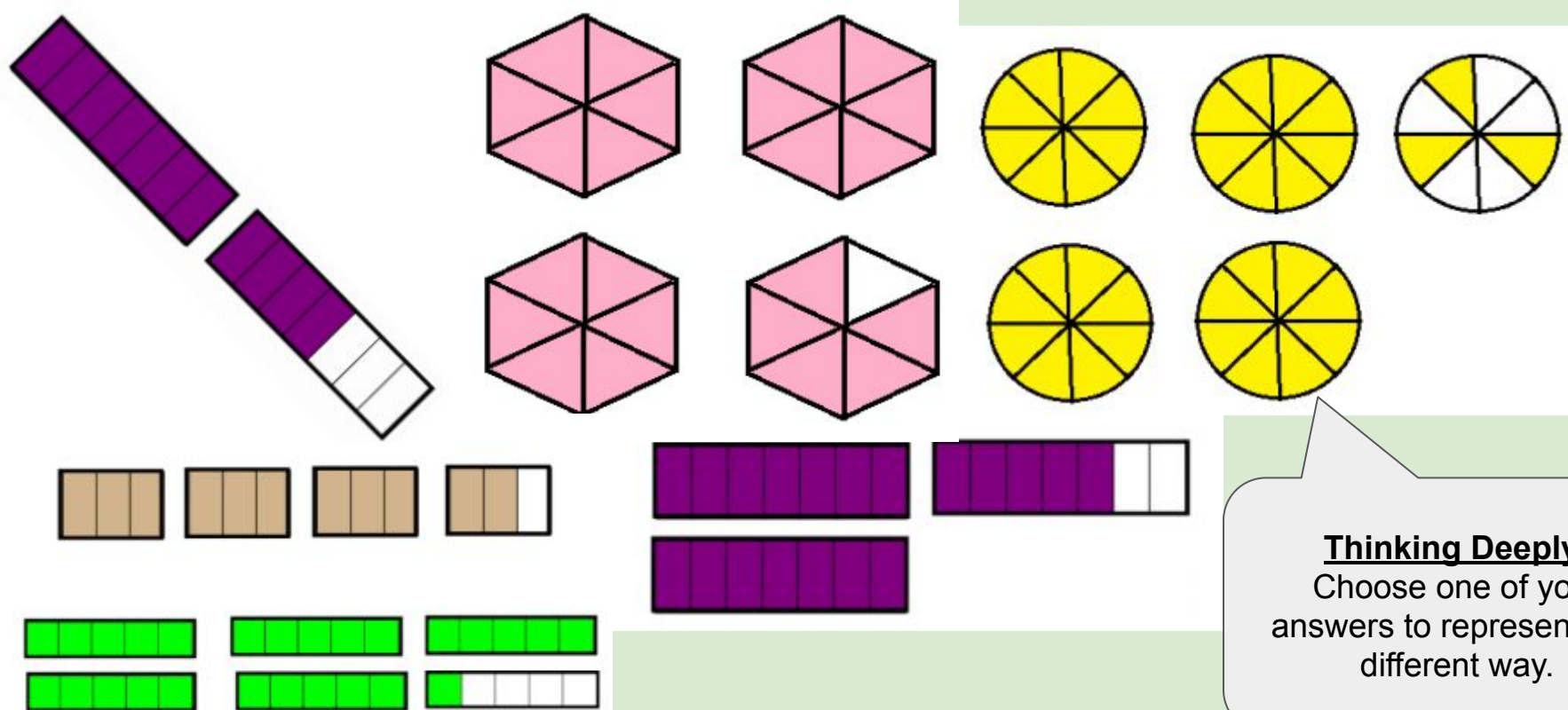
$$4\frac{1}{3}$$

$$2\frac{8}{5}$$

**Thinking Deeply:**  
Is this one a mixed number?

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Know: Name the representations as mixed numbers and improper fractions.



**Thinking Deeply:**  
Choose one of your answers to represent in a different way.

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How can we convert these without using representations?

$$\frac{12}{8}$$

$$\frac{5}{3}$$

$$\frac{19}{4}$$

$$\frac{20}{5}$$

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How can we convert these without using representations?

$$2\frac{3}{8}$$

$$4\frac{1}{3}$$

$$2\frac{8}{5}$$

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Understand:

Convert the following:

$$\frac{17}{5}$$

$$3\frac{5}{6}$$

$$\frac{35}{8}$$

$$1\frac{4}{7}$$

$$\frac{15}{4}$$

$$3\frac{2}{3}$$

**Thinking Deeply:**

Is it possible for a mixed number and improper fraction to have different denominators but still be equal? Explain your thinking.



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Apply:

Rory says  $\frac{20}{6}$  will convert to  $3\frac{1}{3}$

Do you agree with her? Use accurate vocabulary to explain your reasoning.

**Thinking Deeply:**

Create a similar question that involves converting a mixed number into an improper fraction.

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Reflection:

What happens when the numerator is a multiple of the denominator? E.g.

$$\frac{16}{8}$$

$$\frac{30}{3}$$

$$\frac{15}{5}$$