

Year 6

Tuesday 5th May 2020

Maths

LO: to compare and order fractions

Please note: this link only works on either pdf or the link above this powerpoint.
The video lesson is available here – Summer Term - Week 3 - lesson 2



Starter - Brain Teaser

Mrs Mess was buying a set of garden furniture. The bill was seventy dollars.

She gave the attendant what she thought were two £50 notes, (actually two £100 notes).

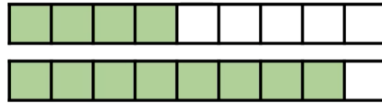
The attendant was sleepy and didn't notice either, so he gave Mrs Mess what he thought were three £10 notes (actually three £50 notes).

Who ended up better off than they should?



1:

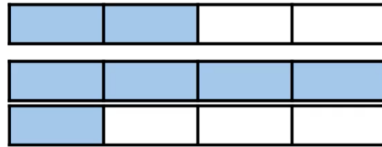
$$\frac{4}{9} < \frac{8}{9}$$



$$\frac{5}{10} > \frac{4}{10}$$



$$\frac{2}{4} < \frac{5}{4}$$



What's the
same and
what's
different?

What do you
notice?

When the denominators are the same, the _____
the numerator, the _____ the fraction.

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2:

Look at the fractions below.
Choose > or < or =

$$\frac{4}{9} \bigcirc \frac{4}{5}$$

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

3:

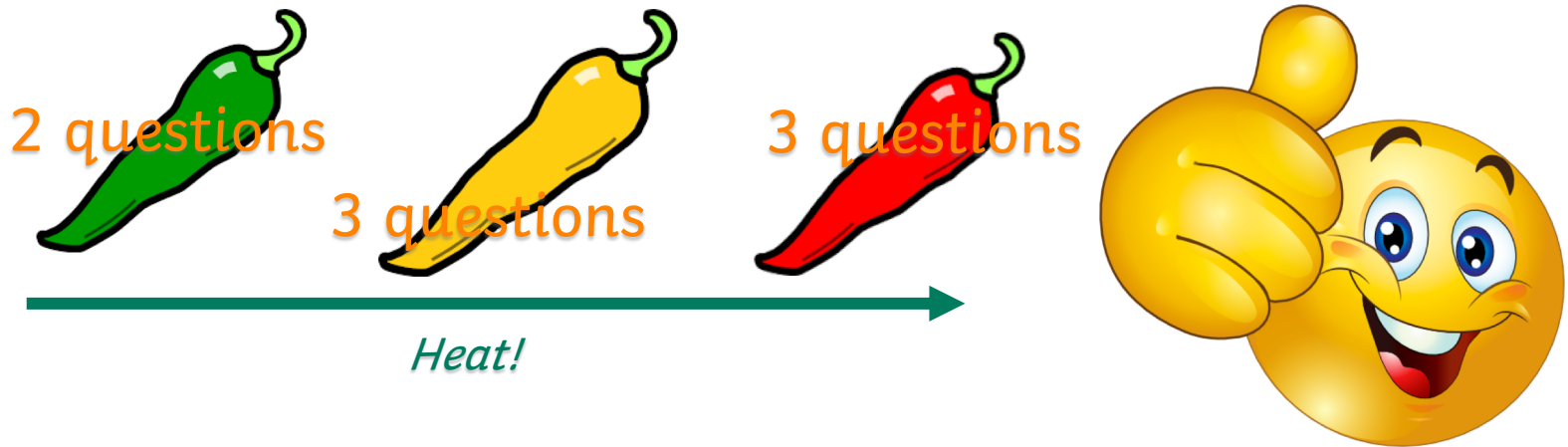
Look at question 2. Can you use your answer to
fill in the gaps in the sentence below?

When the numerators are the same, the _____
the denominator, the _____ the fraction.

Independent work

Independent work continues on the following slide.

Chili challenge! Remember to choose the challenge that is right for you! Too easy will be boring and too hard will be frustrating. For this task you may want to complete a couple of questions at each level.



[The video lesson is available here](#)
Summer Term 1 - Week 3 – lesson 2

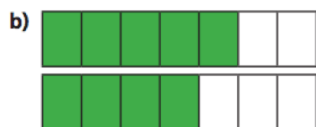
Compare and order (denominator)

1 Write $<$, $>$ or $=$ to compare the fractions.

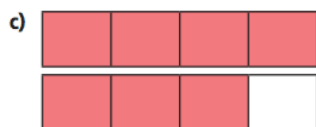
Use the bar models to help you.



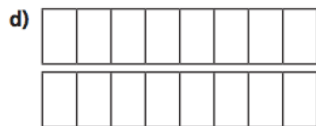
$$\frac{1}{5} \bigcirc \frac{3}{5}$$



$$\frac{5}{7} \bigcirc \frac{4}{7}$$



$$\frac{4}{4} \bigcirc \frac{3}{4}$$



$$\frac{3}{8} \bigcirc \frac{7}{8}$$



$$\frac{4}{9} \bigcirc \frac{6}{9}$$

f) What do you notice about your answers?

g) Complete the sentence.

When the denominators are the same, the _____
the numerator, the _____ the fraction.



2 a) Colour the bar models to show the fractions.



b) Use the bar models to sort these fractions in order from greatest to smallest.

$$\frac{14}{20}$$

$$\frac{9}{10}$$

$$\frac{4}{5}$$

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



greatest

smallest

c) Order the fractions from smallest to greatest.

$$\frac{7}{10}$$

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

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

$$\frac{3}{10}$$



smallest

greatest



- 3 Amir is comparing the fractions $\frac{4}{15}$ and $\frac{3}{10}$



$\frac{4}{15} = \frac{8}{30}$ $\frac{3}{10} = \frac{9}{30}$

$\frac{9}{30}$ is greater than $\frac{8}{30}$

$\frac{3}{10}$ is greater than $\frac{4}{15}$

Explain Amir's method.

- 4 Ron and Rosie are practising penalties.

Ron scored 7 out of 10.

Rosie scored 23 out of 30

I scored more than you, so I should take penalties for the school team.



I did not miss as many as you, so I should take the penalties.

Compare fractions to explain who should take penalties for the school team.

- 5 Write $<$, $>$ or $=$ to compare the fractions.

a) $\frac{3}{4}$ ○ $\frac{5}{6}$

d) $\frac{3}{5}$ ○ $\frac{5}{7}$

b) $\frac{2}{3}$ ○ $\frac{5}{9}$

e) $\frac{9}{10}$ ○ $\frac{3}{4}$

c) $\frac{2}{3}$ ○ $\frac{7}{8}$

f) $\frac{9}{10}$ ○ $\frac{19}{20}$

- 6 Annie, Tommy and Kim are making flags for the school fair.

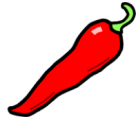
Annie has completed $3\frac{3}{4}$ flags, Tommy has completed $3\frac{2}{3}$ flags and Kim has completed $\frac{18}{5}$ flags.

Who has completed the most flags?



Compare and order (numerator)

1 Use strips of paper to represent the fractions and complete the sentences.



a) $\frac{1}{3}$, $\frac{1}{5}$ and $\frac{1}{6}$

The smallest fraction is The greatest fraction is

b) $\frac{2}{3}$, $\frac{2}{5}$ and $\frac{2}{6}$

The smallest fraction is The greatest fraction is

c) $\frac{3}{3}$, $\frac{3}{5}$ and $\frac{3}{6}$

The smallest fraction is The greatest fraction is

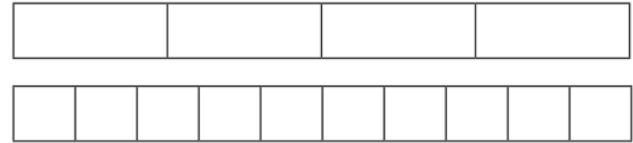
d) What do you notice about your answers?

e) Complete the sentence.

When the _____ are the same, the _____
the denominator, the _____ the fraction.



2 a) Colour the bar models to compare $\frac{3}{4}$ and $\frac{6}{10}$



b) Write <, > or = to complete the statement.



3 Which is the greatest fraction? Circle your answer.

$\frac{3}{100}$

$\frac{3}{1000}$

$\frac{3}{500}$

How do you know?

4 Write < or > to compare the fractions.

a) $\frac{1}{7}$ ○ $\frac{1}{9}$

d) $\frac{11}{12}$ ○ $\frac{11}{11}$

b) $\frac{4}{5}$ ○ $\frac{4}{7}$

e) $\frac{19}{5}$ ○ $\frac{19}{6}$

c) $\frac{3}{13}$ ○ $\frac{3}{8}$

f) $\frac{107}{53}$ ○ $\frac{107}{40}$





- 5 Explain how can you compare $\frac{2}{3}$ and $\frac{4}{5}$ using the same numerator rule.

Complete the sentence to compare $\frac{2}{3}$ and $\frac{4}{5}$

is greater than

- 6 Scott scored 20 out of 24 in a game.

Dani scored 5 out of 7

Compare their scores.

Explain who you think did best and why.

- 7 Write $<$, $>$ or $=$ to complete each statement.

a) $\frac{2}{5}$ ○ $1\frac{1}{3}$ b) $\frac{2}{5}$ ○ $\frac{6}{11}$ c) $3\frac{2}{3}$ ○ $\frac{11}{4}$

$1\frac{2}{5}$ ○ $\frac{1}{3}$ $1\frac{2}{5}$ ○ $3\frac{6}{11}$ $11\frac{2}{9}$ ○ $\frac{101}{3}$

$1\frac{2}{5}$ ○ $1\frac{1}{3}$ $3\frac{2}{5}$ ○ $3\frac{6}{11}$ $11\frac{1}{9}$ ○ $\frac{100}{8}$

$\frac{12}{5}$ ○ $\frac{12}{3}$ $\frac{12}{5}$ ○ $\frac{36}{11}$ $27\frac{3}{4}$ ○ $\frac{111}{3}$

- 8 Explain how you know when it is best to compare the numerators or denominators of two fractions.

