Year 4 Maths, 2/1/21

## Recall

- What are the top and bottom parts of a fraction called?
-What do they tell us?



## Recall answers

- What are the top and bottom parts of a fraction called?
- The top number is the numerator.
- The bottom number is the denominator.
- What do they tell us?
- The numerator represents the number of parts out of the whole.
- The denominator tells us how many parts the whole has been split into.



## I can recognise and calculate fractions greater than 1

- SOME WILL EVEN give answers as improper fractions and mixed numbers.
- SOME will calculate with improper fractions.
- MOST will recognise fractions greater than one whole (improper fractions).
- ALL will recognise fractions equal to one whole.


## Guided practice

- Let's look at three eighths again.
- How many more eighths would we need to make the shape the same as one whole?
- What fraction would it be if all the sections were shaded?


# $\circledast \frac{3}{8}$ three-eighths 

In each of these shapes, what fraction would be the same as one whole?


## Guided practice

- How many more eighths would we need to make the shape the same as one whole?
- Eight eighths is the same as the whole circle, so five more need to be shaded.
- What fraction would it be if all the sections were shaded?


In each of these shapes, what fraction would be the same as one whole?


## Guided practice (continued)

- Did you notice that when a fraction is equal to one, its numerator and denominator are the same?



## All are equal to 1 or "One Whole"

Here, each rectangle is split into four equal parts.

Because there are more than four quarters, we need more than one rectangle.

$\square$

Can you describe this as a fraction?

## Guided practice (continued)

Here, each rectangle is split into four equal parts.

Because there are more than four quarters, we need more than one rectangle.


Can you describe this as a fraction?

## I can also see one whole rectangle and another two quarters.

## One chilli

- Complete these fractions to make them equal to one.



## Two chillies

Complete the part-whole models and sentences.

There are $\qquad$ quarters altogether.
_ quarters = $\qquad$ whole and $\qquad$ quarter.


Write sentences to describe these part-whole models.


## One chilli answers

- Complete these fractions to make them equal to one.



## Two chillies answers

Complete the part-whole models and sentences.
There are 6 quarters altogether.
$\underline{6}$ quarters $=\underline{1}$ whole and $\underline{1}$ quarter.


Write sentences to describe these part-whole models.


There are 8 thirds altogether. 8 thirds $=2$ wholes and 2 thirds.


There are 7 quarters altogether.
7 quarters $=1$ whole and 3 quarters.

## Three chillies

Complete. You may use part-whole models to help you.

$$
\begin{aligned}
& \frac{10}{3}=\frac{9}{3}+\frac{\square}{3}=3 \frac{\square}{3} \\
& \frac{\square}{3}=\frac{6}{3}+\frac{2}{3}=\square \frac{2}{3} \\
& \frac{\square}{8}=\frac{16}{8}+\frac{3}{8}=\square
\end{aligned}
$$

Three chillies answers

Complete. You may use part-whole models to help you.

$$
\begin{aligned}
& \frac{10}{3}=\frac{9}{3}+\frac{1}{3}=3 \frac{1}{3} \\
& \frac{8}{3}=\frac{6}{3}+\frac{2}{3}=2 \frac{2}{3} \\
& \frac{19}{8}=\frac{16}{8}+\frac{3}{8}=2
\end{aligned}
$$

## Dive deeper

3 friends share some pizzas.
Each pizza is cut into 8 equal slices.
Altogether, they eat 25 slices.
How many whole pizzas do they eat?

Spot the mistake.

$\frac{13}{5}=10$ wholes and 3 fifths

Rosie says,
$\frac{16}{4}$ is greater than $\frac{8}{2}$ because 16 is greater than 8

Do you agree?
Explain why.

## Dive deeper answers

| 3 friends share some pizzas. <br> Each pizza is cut into 8 equal slices. <br> Altogether, they eat 25 slices. <br> How many whole pizzas do they eat? | They eat 3 whole <br> pizzas and 1 more <br> slice. |
| :--- | :--- |
| Spot the mistake. | There are 2 <br> wholes not 10 <br> $\frac{10}{5}=2$ wholes |
| $\qquad$$\frac{13}{5}=10$ wholes and 3 fifths | $\frac{13}{5}=2$ wholes <br> and 3 fifths |



## Self assessment - how did you do?

## I can recognise and calculate fractions greater than 1

- SOME WILL EVEN give answers as improper fractions and mixed numbers.

Did you get the three chilli questions

- SOME will calculate with improper fractions.
- MOST will recognise fractions greater

Can you explain when a fraction is the same as one, or greater than one? than one whole (improper fractions).

Did you get the two chilli questions right?

- ALL will recognise fractions equal to one whole.

