25.1.21 Fractions

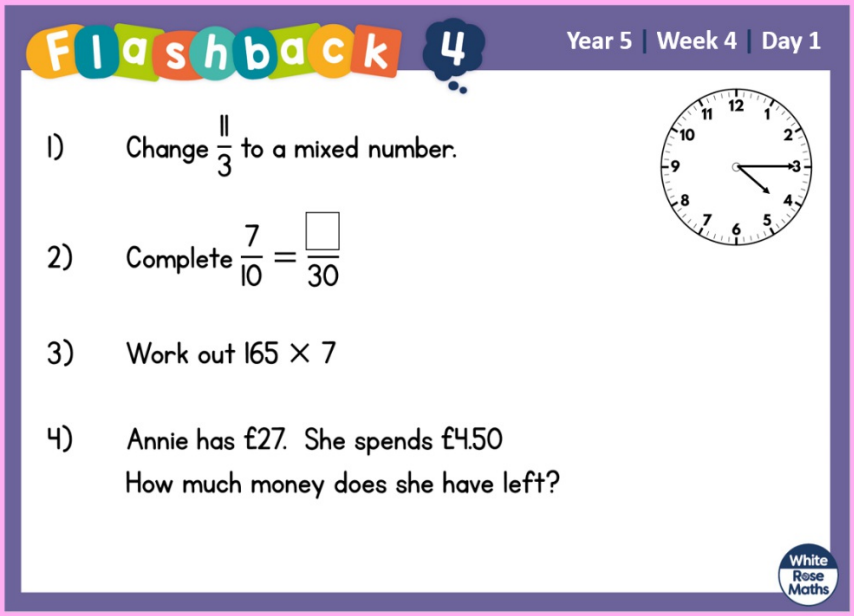
Learning Objective:
We are learning to identify fractions.

I will be successful if:

- I can try different methods and reason about my preferred method.
- I can use times tables facts to help solve calculations.
- I can carry over any remaining digits.

Key Vocabulary

fractions as part of a whole
equal
representations
shapes
quantities
numerator
denominator
non-unit and unit fractions



Challenge - Use either grid method or column method

5) 24 x 28 =

6) 41 x 39 =

7) 36 x 74=

8) 29 x 57 =

Flashback 4 — Year 5 | Week 4 | Day 1

1) Change $\frac{11}{3}$ to a mixed number. $3\frac{2}{3}$

2) Complete $\frac{7}{10} = \frac{\square}{30}$ 21

3) Work out 165 × 7 1,155

4) Annie has £27. She spends £4.50
How much money does she have left? £22.50

White Rose Maths

Challenge - Use either grid method or column method

5) 24 x 28 = 672

6) 41 x 39 = 1599

7) 36 x 74= 2664

8) 29 x 57 = 1653

Discussion

What is a fraction?

Where do you use fractions in everyday life?

What do you already know about fractions?

Do you find anything tricky about fractions? If so, what?

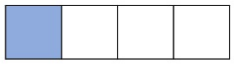
Fraction revision

$\frac{1}{4}$ ← Numerator –
How many of the parts we are using

$\frac{1}{4}$ ← Denominator –
How many equal parts there are

Does it matter which box we shade?

$\frac{1}{4}$



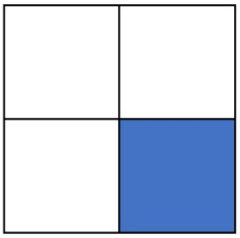
$\frac{1}{4}$

Which shows $\frac{1}{4}$?

How do you know?

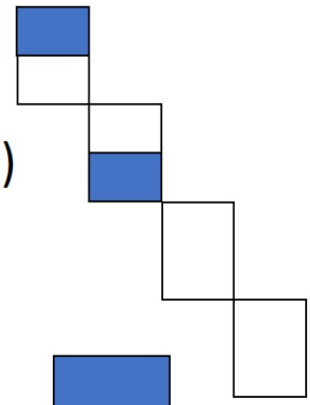
Have a think

a)

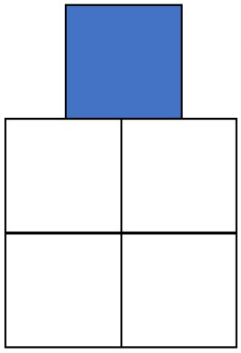


b)

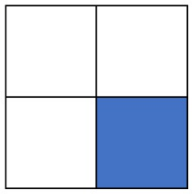
c)



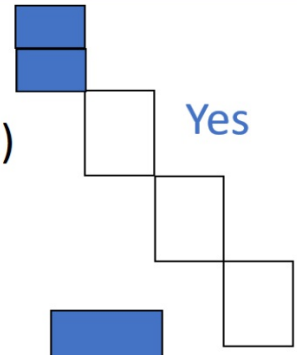
d)

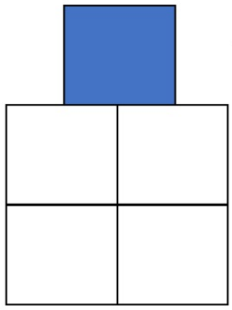


Answers

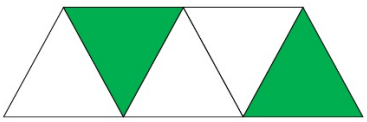
a)  Yes

b)  No

c)  Yes

d)  No

How do we write a fraction if more than one part is shaded?



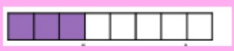
$\frac{2}{5}$

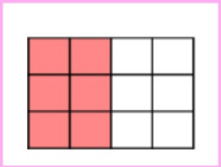
5 equal parts

2 parts shaded

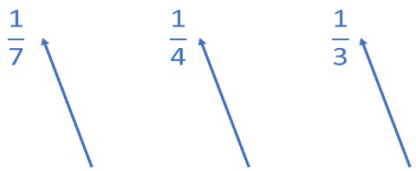
2 out of 5 parts shaded

What would the fraction be for these representations?

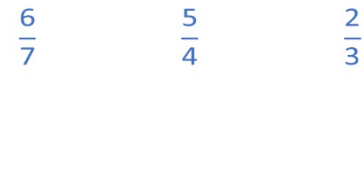




What is the difference between a unit fraction and a non-unit fraction?

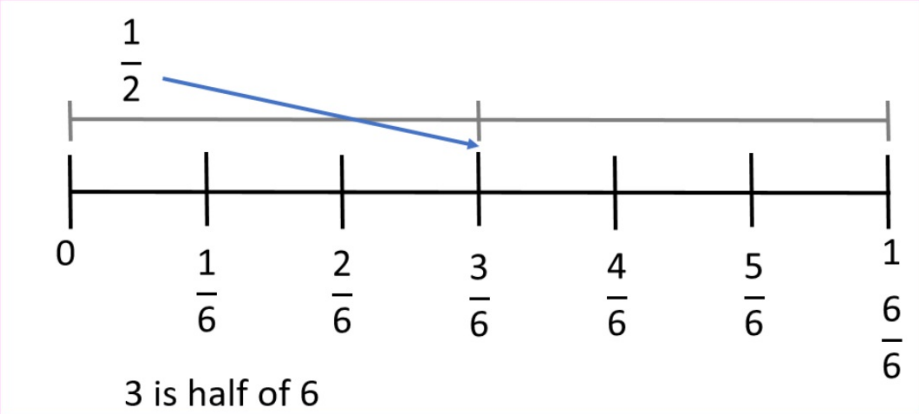


$\frac{1}{700}$ $\frac{1}{2}$ $\frac{1}{3400}$ $\frac{1}{19}$



$\frac{143}{700}$ $\frac{2}{2}$ $\frac{6}{3400}$ $\frac{9}{19}$

Fractions on a number line

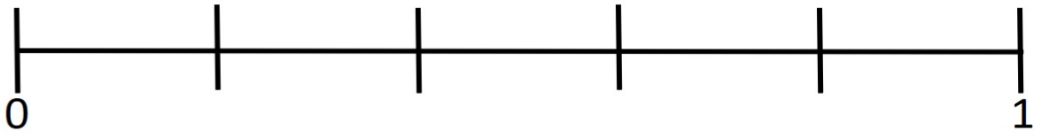


$\frac{3}{6}$ is equal to $\frac{1}{2}$

Where would these numbers go on the number lines?

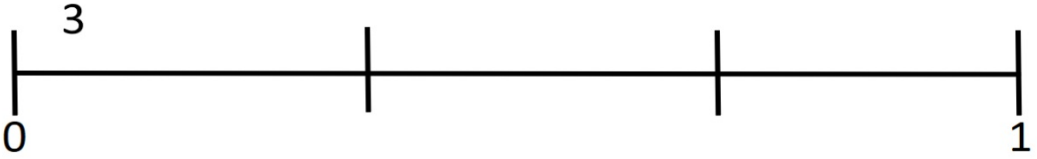
Have a think

1) $\frac{4}{5}$

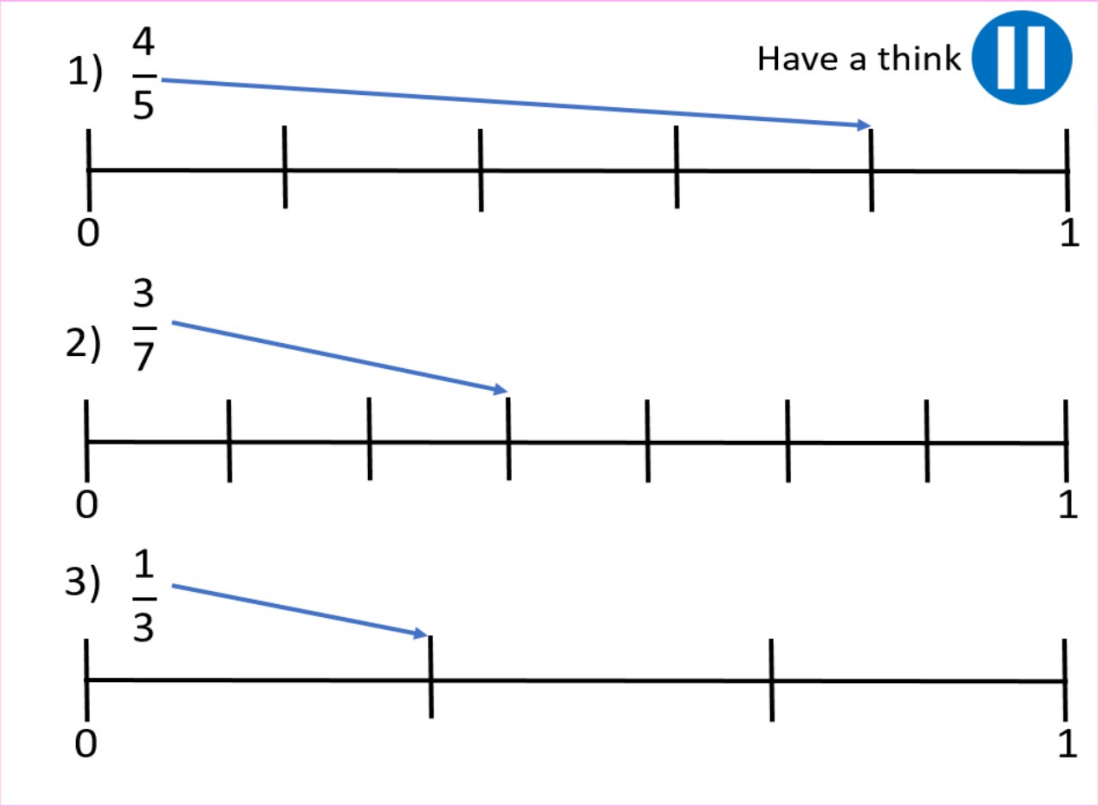


2) $\frac{3}{7}$

3) $\frac{1}{3}$



Answers



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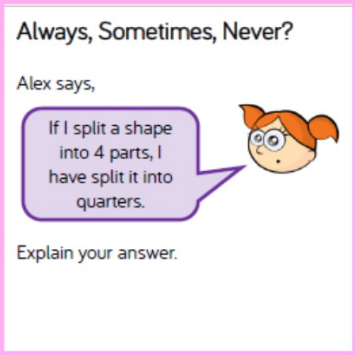
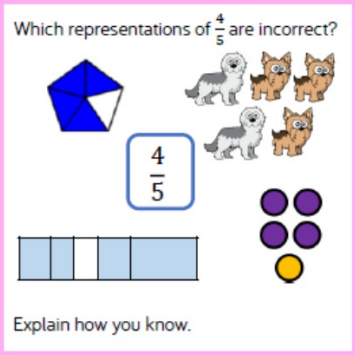
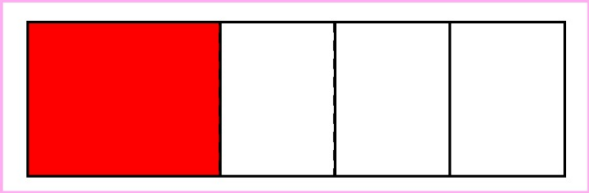
Have a go at the questions on the sheet attached.

Reasoning challenges







Is more or less than one quarter shaded?
Explain how you know.