Canonbury Home Learning

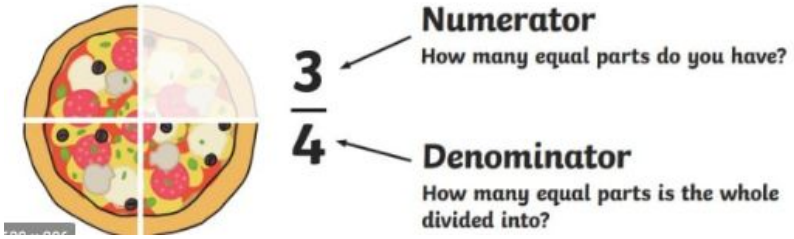
Year 4 Maths 21.05.20

Steppingstone activity

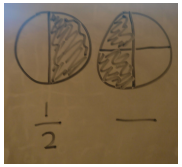
LO: To identify equivalent fractions

Success Criteria:

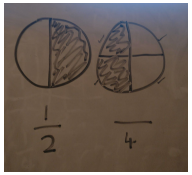
1. Look at the image
2. Count the number of sections (denominator)
3. Count the shaded sections (numerator)
4. Find an equivalent fraction



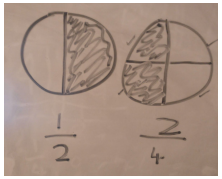
Model



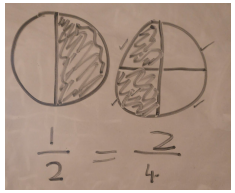
2.



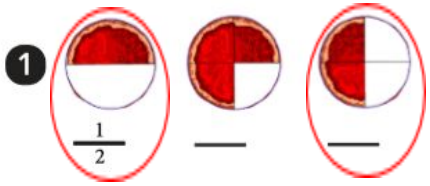
3



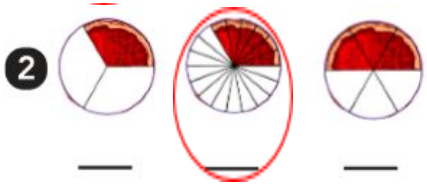
.4.



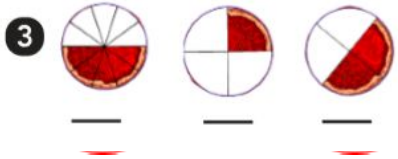
Now you try… In each problem, identify the fraction, then circle the fractions that are equivalent



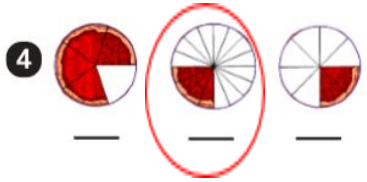
1/2 3/4 2/4



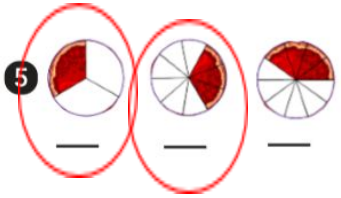
1/3 6/18 3/6



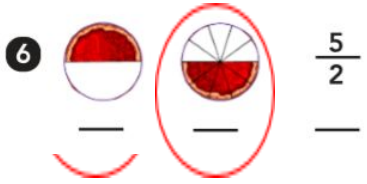
5/10 1/4 2/4



4/5 4/16 2/8



1/3 3/9 4/10



1/2 5/10 5/2

Canonbury Home Learning

Year 4 Maths

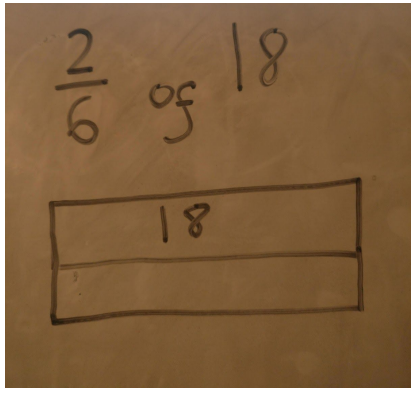
Lesson 21.05.20

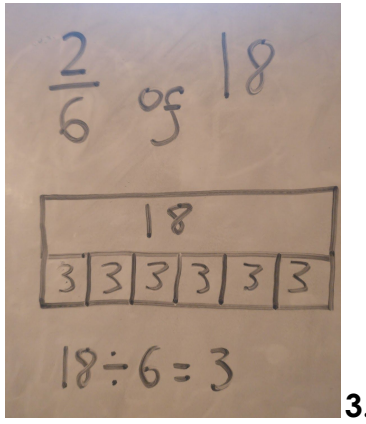
LO: To find a fraction of a quantity

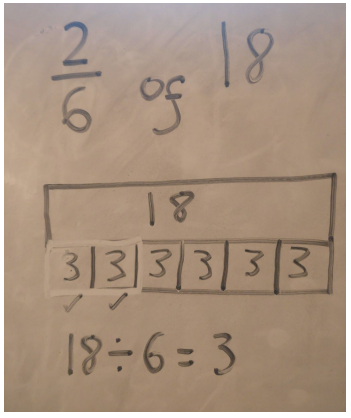
Success Criteria:

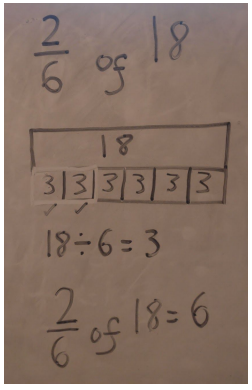
1. Make a bar model of you fraction
2. DIvide the model/whole number by the denominator
3. Multiply by the numerator (Shade the model)
4. Write your answer

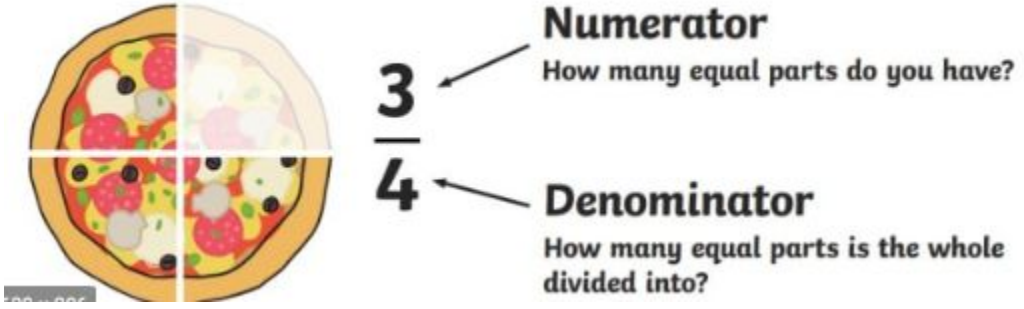
Model:

1. 

2. 

3. 

4. 



Canonbury Home Learning

Year 4 Maths Main activity

Complete at least 2 columns, more if you can!

Task 1(Equivalent Fractions)

Practice: Write the equivalent fraction

1. $\frac{1}{3} = \frac{4}{12}$
2. $\frac{1}{2} = \frac{3}{6}$
3. $\frac{3}{4} = \frac{6}{8}$
4. $\frac{5}{12} = \frac{10}{24}$

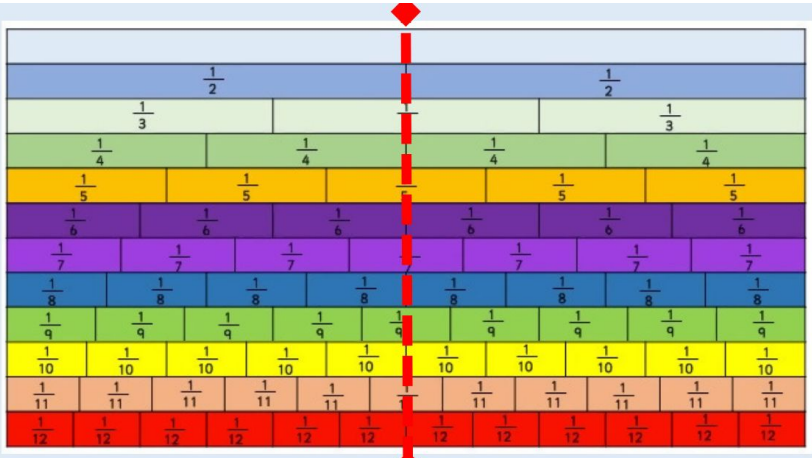
Complete the following fractions

5. $\frac{1}{4} = \frac{2}{8} = \frac{3}{12} = \frac{4}{16} = \frac{25}{100} = \frac{50}{200}$

$\frac{1}{2} = \frac{2}{4} = \frac{3}{6} = \frac{4}{8} = \frac{50}{100} = \frac{100}{200}$

6. $\frac{1}{3} = \frac{2}{6} = \frac{4}{12} = \frac{8}{24}$

7.

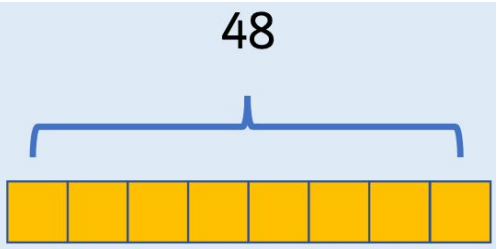


$\frac{1}{2}$ $\frac{2}{4}$ $\frac{3}{6}$ $\frac{4}{8}$ $\frac{5}{10}$ $\frac{6}{12}$

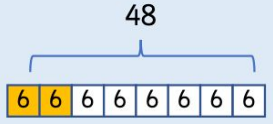
Task 2 (Fractions of quantities)

Practice: Use the bar model to find the fraction of a quantity

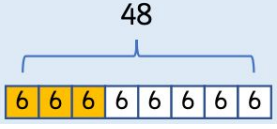
1. $\frac{1}{8}$ of 48 = 48 ÷ 8



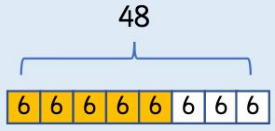
2. $\frac{2}{8}$ of 48 = 12



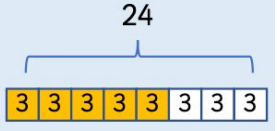
3. $\frac{3}{8}$ of 48 = 18



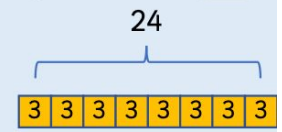
4. $\frac{5}{8}$ of 48 = 30



5. $\frac{5}{8}$ of 24 = 15



6. $\frac{8}{8}$ of 24 = 24



7. $\frac{2}{3}$ x 180 g = 120 g

Ty eats $\frac{2}{3}$ of 180g of chocolate. How much does he have left?

	$\frac{5}{7} \times 490\ g = 350\ g$ Hannah has 490 ml of water. She spills $\frac{2}{7}$ of it. How much water does she have left?

Task 3

Reasoning

Explain your answers.

9a. Steph and Cian calculated $\frac{6}{8}$ of 32.

Steph

I just need to double the answer to calculate $\frac{6}{8}$ of 96.

The answer is the same as $\frac{2}{8}$ of 96.

Cian

Who is correct? Explain how you know.

9a. Cian is correct because 96 is three times larger than 32 and the fraction is three times smaller so it will produce the same answer.

9b. Phoebe is looking at the fractions below.

$$\frac{9}{12} = \frac{15}{20} = \frac{21}{28}$$

The fractions are all equal because they are equivalent to $\frac{6}{8}$.

Phoebe

Is she correct? Convince me.

9b. Phoebe is correct because all three fractions can be simplified to $\frac{3}{4}$ which is equivalent to $\frac{6}{8}$.

4b. Use your knowledge of equivalent fractions to group the fractions below and find the odd one out.

$\frac{5}{15}$ $\frac{6}{30}$ $\frac{4}{12}$ $\frac{1}{6}$ $\frac{3}{18}$

Explain the reasons for your groupings.

4b. $\frac{5}{15}$ and $\frac{4}{12}$ are grouped because they are equivalent, $\frac{1}{6}$ and $\frac{3}{18}$ are grouped because they are equivalent so $\frac{6}{30}$ is the odd one out.

Task 4

Problem solving

2. Jofra is solving the calculation below using related facts.

$$\frac{6}{8} \text{ of } 560$$

I can use $\frac{1}{8}$ of 56 to solve the calculation, as I could then multiply my answer by 6 and then 10.

Select the most suitable related facts that could be used to solve the calculation and explain your choices.

$\frac{3}{4}$ of 56 $\quad$ $\frac{6}{8}$ of 56 $\quad$ $\frac{3}{4}$ of 560 $\quad$ $\frac{1}{4}$ of 56 $\quad$ $\frac{1}{2}$ of 560

Various answers, for example: $\frac{6}{8}$ of 56 could be used as you could multiply the answer (42) by 10, which would give 420.

Explore the related facts that could be used to solve the following calculation:

$$\frac{4}{6} \text{ of } 240$$

Various answers, for example: $\frac{2}{3}$ of 24, $\frac{4}{6}$ of 24, $\frac{1}{6}$ of 24