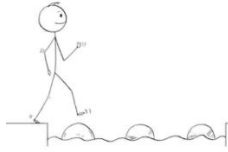Year 4 Maths 21.05.20
Steppingstone activity
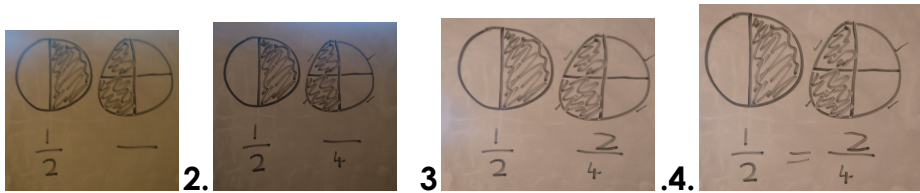LO: To identify equivalent fractions
Success Criteria:

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

Model

$\frac{1}{2}$ — 2. $\frac{1}{2}$ $\frac{2}{4}$ 3 $\frac{1}{2}$ $\frac{2}{4}$ .4. $\frac{1}{2} = \frac{2}{4}$

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

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

2 ___ ___ ___

3 ___ ___ ___

4 ___ ___ ___

5 ___ ___ ___

6 ___ ___ $\frac{5}{2}$

Year 4 Maths
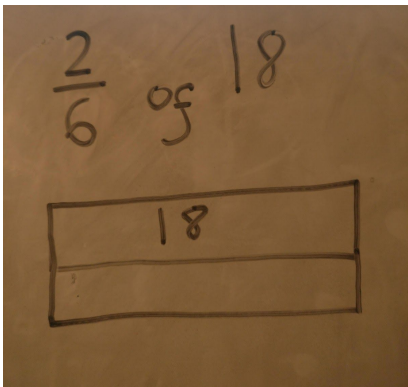
Lesson 21.05.20

LO: To find a fraction of a quantity

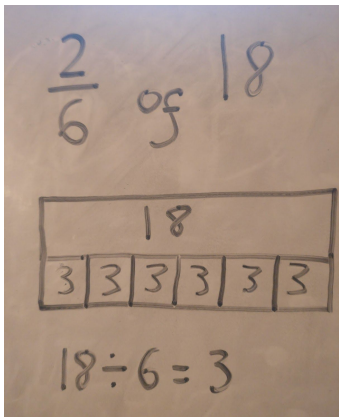**Success Criteria:**

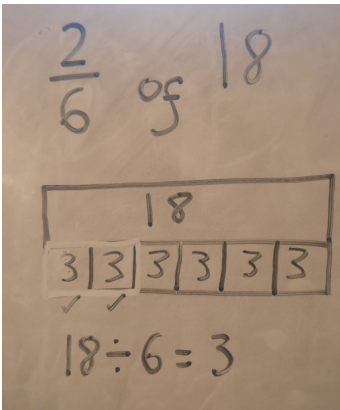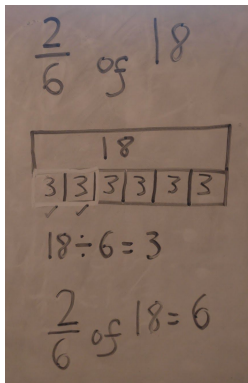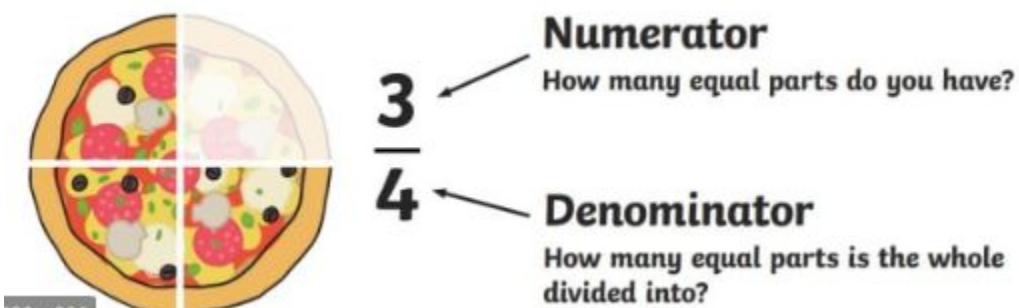| |
|---|
| 1. Make a bar model of you fraction |
| 2. DIvide the model/whole number by the denominator |
| 3. Multiply by the numerator (Shade the model) |
| 4. Write your answer |

Model:

1.

2.

3.

4.

Numerator
How many equal parts do you have?

$\frac{3}{4}$

Denominator
How many equal parts is the whole divided into?

Year 4 Maths Main activity
Complete at least 2 columns, more if you can!

Task 1 (Equivalent Fractions)	Task 2 (Fractions of quantities)

Task 1 (Equivalent Fractions)

Practice: Write the equivalent fraction

1. $\frac{1}{3} = \frac{\Box}{12}$ 2. $\frac{1}{\Box} = \frac{3}{6}$ 3. $\frac{3}{4} = \frac{\Box}{8}$ 4. $\frac{5}{12} = \frac{\Box}{24}$
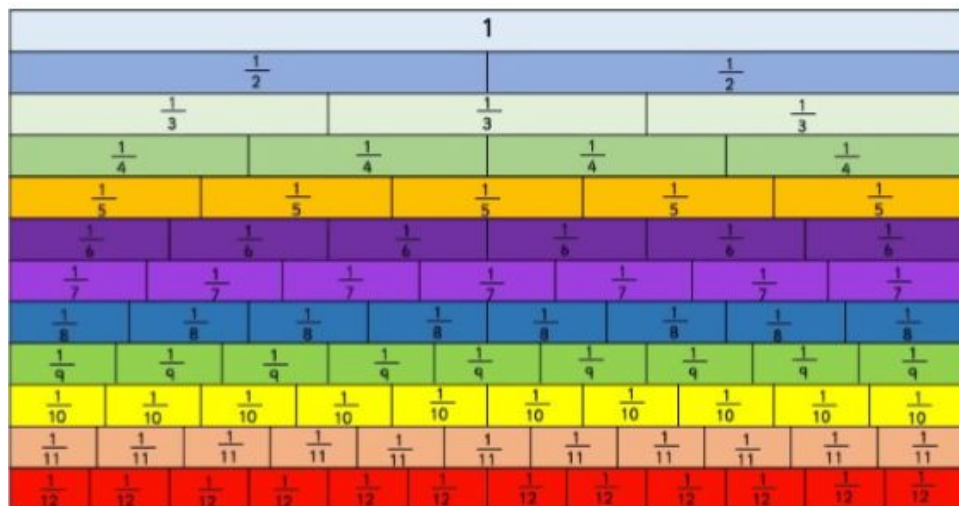
Complete the following fractions

5.

$\frac{1}{4} = \frac{2}{\Box} = \frac{\Box}{12} = \frac{4}{\Box} = \frac{\Box}{100} = \frac{\Box}{200}$

$\frac{1}{2} = \frac{2}{\Box} = \frac{\Box}{6} = \frac{4}{\Box} = \frac{\Box}{100} = \frac{\Box}{200}$

6. $\frac{1}{3} = \frac{\Box}{6} = \frac{\Box}{12} = \frac{\Box}{24}$

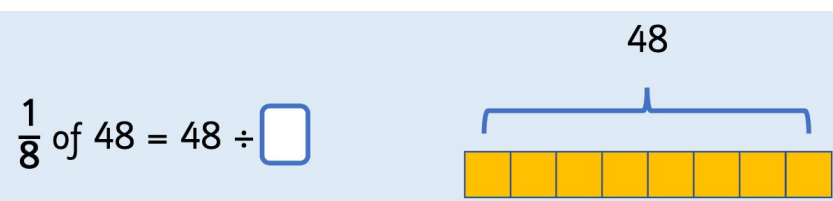**7. What equivalent fractions to ½ can you find using this diagram?**

Task 2 (Fractions of quantities)

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

1. $\frac{1}{8}$ of 48 = 48 ÷ $\Box$

48

2. $\frac{2}{8}$ of 48 = $\Box$ 3. $\frac{3}{8}$ of 48 = $\Box$

4. $\frac{5}{8}$ of 48 = $\Box$ 5. $\frac{5}{8}$ of 24 = $\Box$

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

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

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.

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.

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

$$\frac{5}{15} \qquad \frac{6}{30} \qquad \frac{4}{12}$$

$$\frac{1}{6} \qquad \frac{3}{18}$$

Explain the reasons for your groupings.

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

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

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