1. Look at your fraction
2. Colour your fraction as an image
3. Finding the missing numerator
4. Complete the fraction
5. Match with one whole

Numerator
How many equal parts do you have?

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

Denominator
How many equal parts is the whole divided into?

Model

1.

$$\frac{2}{3} + \frac{}{} = \frac{}{} =$$

3.

$$\frac{2}{3} + \frac{1}{3} = \frac{}{} =$$

3.

$$\frac{2}{3} + \frac{1}{3} = \frac{3}{3} =$$

4.

$$\frac{2}{3} + \frac{1}{3} = \frac{3}{3} = 1$$
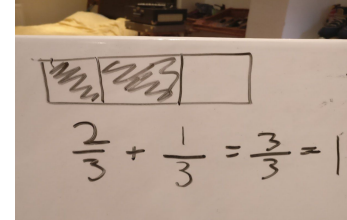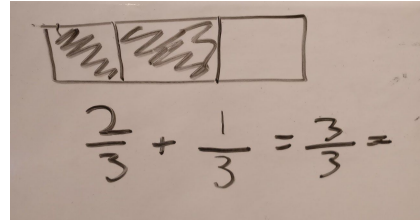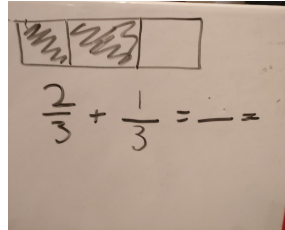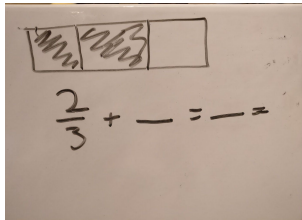
1a. How many parts need to be shaded to complete the whole?

Complete the calculation below.

1.

$$\frac{3}{4} + \frac{\square}{4} = \frac{\square}{4} = 1$$

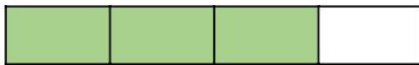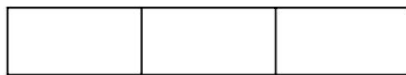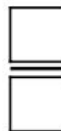**1b. How many parts need to be shaded to complete the whole?**

Complete the calculation below.

2.

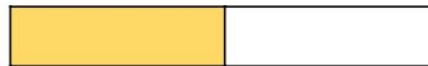$$\frac{1}{2} + \frac{\square}{2} = \frac{\square}{2} = 1$$

3. 2/3 + ?/3 = ?/3 = 1

4.

1 whole and 1 part = $\dfrac{\square}{\square}$

5.
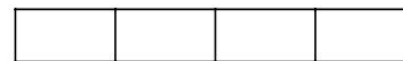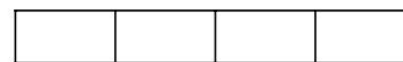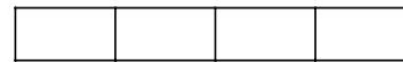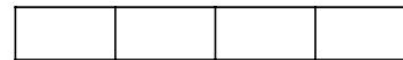
3 wholes and 2 parts = $\dfrac{\square}{\square}$

Year 4 Maths
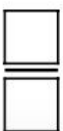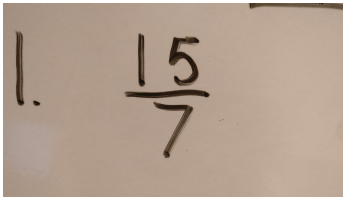
Lesson 16
LO: To find whole and part fractions

Success Criteria:

1. Look at your fraction
2. Draw your fraction as an image
3. Shade the numerator value of the image
4. Write your whole fraction
5. Finish by adding the part fraction

Model:

1.   2.   3.   4.   5.

Numerator
How many equal parts do you have?

$\frac{3}{4}$

Denominator
How many equal parts is the whole divided into?

Task 1	Task 2

Practice: Follow the instructions and make the fraction that is greater than 1
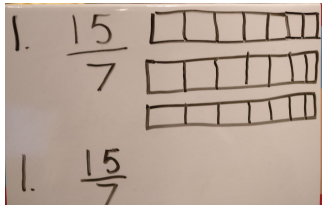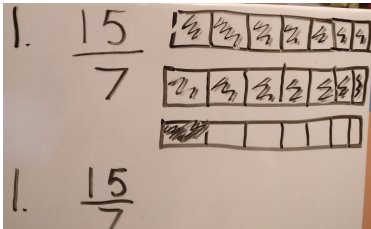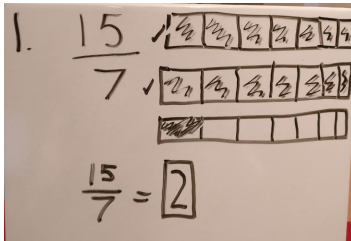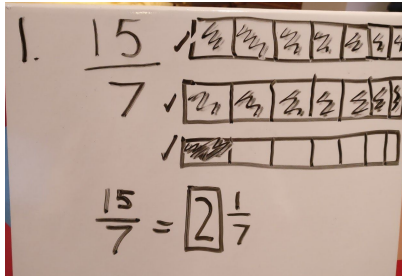
4a. If I have $\frac{4}{9}$, how many more parts do I need to have a whole?

Complete the calculation below.

1. $\frac{4}{9} + \frac{\square}{9} = \frac{\square}{9} = 1$

4b. If I have $\frac{9}{12}$, how many more parts do I need to have a whole?

Complete the calculation below.

2. $\frac{9}{12} + \frac{\square}{12} = \frac{\square}{12} = 1$

7a. If I have $\frac{15}{7}$, how many wholes and how many parts do I have?

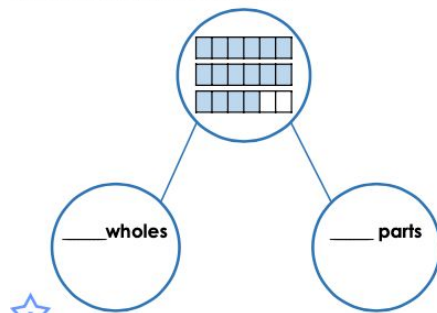Complete the calculation below.

3. $\frac{15}{7} = \square\frac{\square}{7}$

7b. If I have $\frac{31}{9}$, how many wholes and how many parts do I have?

Complete the calculation below.

4. $\frac{31}{9} = \square\frac{\square}{9}$

5. **6a.** Complete the part-whole model to show how many wholes and parts there are in the fraction below.

_____ wholes   _____ parts

Practice: Follow the instructions and make the fraction that is greater than 1

5a. Shade the images below to show twenty-one fifths. Complete the fraction to describe the image.

1. $\frac{\square}{5} = \square\frac{\square}{5}$

5b. Shade the images below to show seventeen thirds. Complete the fraction to describe the image.

2. $\frac{\square}{3} = \square\frac{\square}{3}$

8b. Shade the images below to show sixty eighteenths. Complete the fraction to describe the image.

3. $\frac{\square}{18} = \square\frac{\square}{9}$

8a. Shade the images below to show twenty-seven sixths. Complete the fraction to describe the image.

4. $\frac{\square}{6} = \square\frac{\square}{12}$

Task 3

Reasoning

Explain your answers.

6a. Daisy and Ahmed are discussing this image:

Daisy: It is two wholes and five eighths.

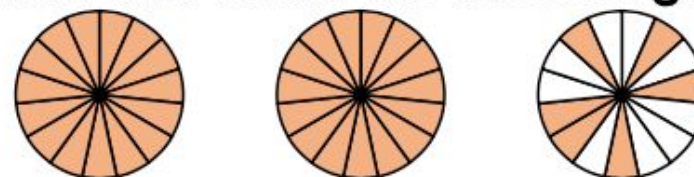Ahmed: It is twenty-two eighths.

Who is correct? Convince me.

9b. Clement and Sasha are discussing this image:

Clement: It is twenty-four tenths.

Sasha: It is two wholes and one half.

Who is correct? Convince me.

Task 4

Problem solving

1. Fraser, Dalia, Anderson and Julia have been sharing food at their party. They can't remember how many whole plates of food they started with, but they can remember the fraction that they each ate.

Fraser: I ate more than one whole plate but less than two and a half plates.

Dalia: I had between $\frac{5}{6}$ of a plate and one and a half plates.

Julia: I ate the least amount of food, but I still ate more than a whole plate.

Anderson: I ate more food than Julia, but less food than Fraser. I ate at least one full plate and a sixth.

Investigate the fraction of plates of food that each child could have eaten.