Year 4 Maths
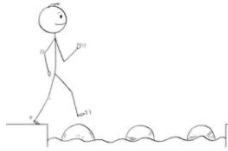## Steppingstone activity
LO: To add and subtract fractions
Success Criteria:

1. Look at your image
2. Shade the first fraction
3. Shade the second fraction
4. Add up and write your answer

$\frac{3}{4}$ — **Numerator** How many equal parts do you have?

$\frac{3}{4}$ — **Denominator** How many equal parts is the whole divided into?

Model

1. $\frac{3}{8} + \frac{4}{8}$

2. $\frac{3}{8} + \frac{4}{8}$

3. $\frac{3}{8} + \frac{4}{8}$

4. $\frac{3}{8} \quad \frac{4}{8}$ $\frac{7}{8}$

Now you try… Make equivalent fraction of the one below

1. $\frac{3}{8} + \frac{4}{8} = \frac{\square}{\square}$

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

3. $\frac{4}{7} + \frac{6}{7} = \frac{\square}{\square}$

4. $\frac{6}{11} + \frac{9}{11} = \frac{\square}{\square}$

5. $\frac{7}{11} + \frac{3}{11} = \frac{\square}{\square}$

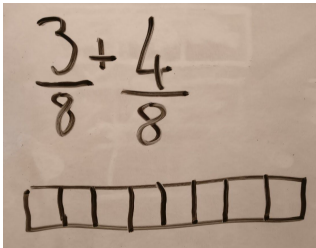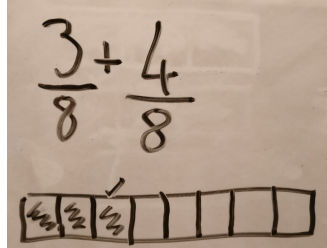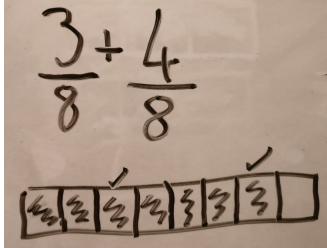6. $\frac{3}{9} + \frac{1}{9} + \frac{4}{9} = \frac{\square}{\square}$

Year 4 Maths
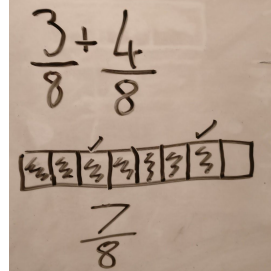
Lesson 18
LO: To add and subtract fractions

Success Criteria:

1.	Look at your image
2.	Shade the first fraction
3.	Shade the second fraction
4.	Add up and 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
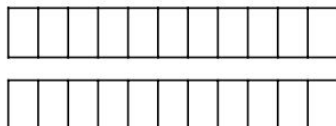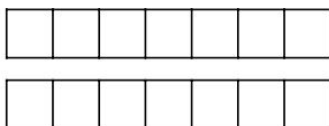Complete at least 2 columns, more if you can!

Task 1	Task 2
Practice:	**Practice:**
Add up these fractions:	**Add up these fractions:**

Task 1

1.

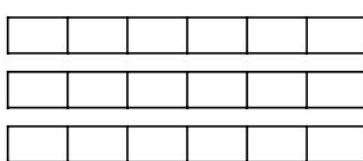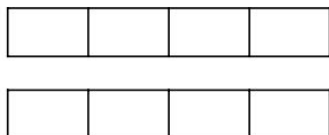$$\frac{4}{7} + \frac{6}{7} = \frac{\square}{\square}$$

$$\frac{6}{11} + \frac{9}{11} = \frac{\square}{\square}$$

2.

$$\frac{3}{4} + \frac{2}{4} + \frac{1}{4} = \frac{\square}{\square}$$

$$\frac{5}{6} + \frac{4}{6} + \frac{7}{6} = \frac{\square}{\square}$$

3.

Fill in the missing numbers below.

$$\frac{7}{\square} + \frac{6}{7} + \frac{2}{\square} = \frac{\square}{\square} + \frac{5}{7} = \frac{\square}{\square}$$

$$\frac{16}{18} + \frac{7}{\square} + \frac{2}{\square} = \frac{\square}{\square} + \frac{11}{18} = \frac{\square}{\square}$$

$$\frac{\square}{\square} + \frac{12}{15} + \frac{11}{\square} = \frac{17}{15} + \frac{\square}{\square} = \frac{32}{\square}$$

$$\frac{\square}{\square} + \frac{11}{\square} + \frac{6}{\square} = \frac{17}{\square} + \frac{\square}{\square} = \frac{29}{8}$$
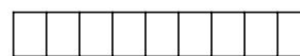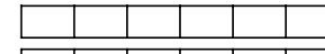
Task 2

1.

$$\frac{3}{9} + \frac{4}{9} + \frac{10}{18} = \frac{\square}{\square} = \frac{\square}{\square}$$

$$\frac{7}{6} + \frac{4}{3} + \frac{2}{6} = \frac{\square}{\square} = \frac{\square}{\square}$$

2.

$$\frac{7}{10} + \frac{6}{20} + \frac{1}{5} + \frac{4}{10} = \frac{\square}{\square} = \frac{\square}{\square}$$

$$\frac{4}{12} + \frac{3}{6} + \frac{4}{6} + \frac{10}{12} = \frac{\square}{\square} = \frac{\square}{\square}$$

$$\frac{1}{3} + \frac{5}{6} = \frac{\square}{12} + \frac{20}{24} = \frac{\square}{\square} = \frac{\square}{\square}$$

$$\frac{8}{6} + \frac{\square}{12} = \frac{38}{24} + \frac{18}{12} = \frac{\square}{\square} = \frac{\square}{\square}$$

3.

$$\frac{3}{4} + \frac{\square}{8} = \frac{12}{16} + \frac{6}{8} = \frac{\square}{\square} = \frac{\square}{\square}$$

4.

$$\frac{7}{2} + \frac{9}{4} = \frac{\square}{8} + \frac{36}{16} = \frac{\square}{\square} = \frac{\square}{\square}$$

Task 3

Reasoning

Explain your answers.

6a. Chuan and Sam are finding missing numbers in a calculation.

$$\frac{3}{7} + \frac{\square}{7} + \frac{\square}{7} = \frac{12}{7}$$

Chuan: $\frac{5}{7}$ and $\frac{4}{7}$ are missing.
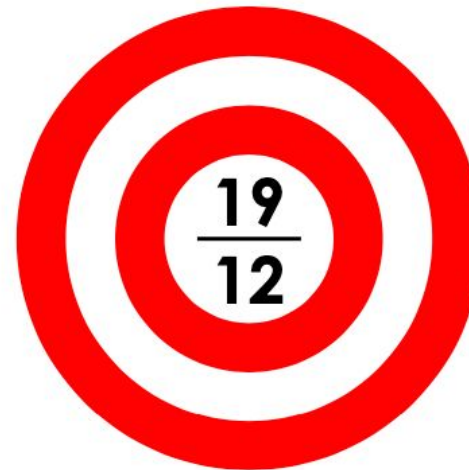
Sam: $\frac{6}{7}$ and $\frac{3}{7}$ are missing.

Who is correct? Explain how you know.

5b. Using at least two of the fraction cards, create two addition calculations to equal the target fraction.

$\frac{11}{12}$

$\frac{5}{12}$

$\frac{19}{12}$

$\frac{3}{12}$

$\frac{8}{12}$

Task 4

Problem solving

1. Alexia the artist has made a painting for an art gallery. She has some paint left over and wants to make a painting for her mum. The canvas will need at least 7 bottles of paint.

I have different amounts of each colour left. I want to use a mixture of a least 2 colours.

$\dfrac{14}{4}$ bottles $\dfrac{7}{2}$ bottles $\dfrac{25}{15}$ bottles

$\dfrac{12}{18}$ bottles $\dfrac{13}{6}$ bottles $\dfrac{4}{16}$ bottles

$\dfrac{44}{24}$ bottles $\dfrac{6}{8}$ bottles $\dfrac{35}{30}$ bottles

Explore the combinations of colours that Alexia could use to complete her painting.