

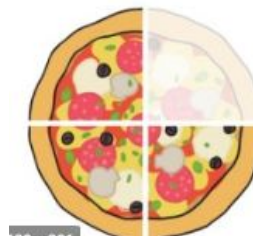
**Year 4 Maths**

**Steppingstone activity**

**LO: To add and subtract fractions**

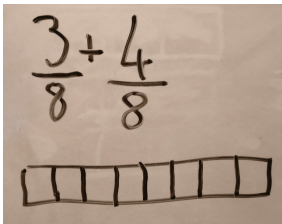
**Success Criteria:**

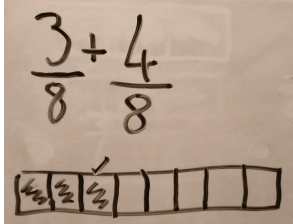
- |                                 |
|---------------------------------|
| 1. Look at your image           |
| 2. Shade the first fraction     |
| 3. Shade the second fraction    |
| 4. Add up and write your answer |

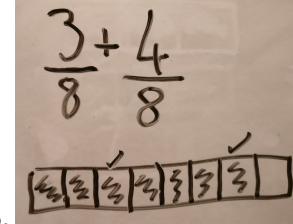


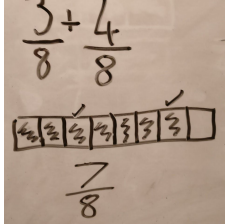
**Numerator**  
How many equal parts do you have?  
**3**

**Denominator**  
How many equal parts is the whole divided into?  
**4**

1. 

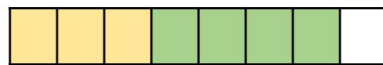
2. 

3. 

4. 


Now you try... Make equivalent fraction of the one below

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



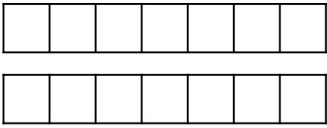
**7/8**

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



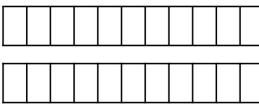
**10/12**

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



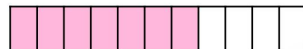
**10/7 or 1 3/7**

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




**15/11 or 1 4/11**

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



**10/11**

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



**8/9**

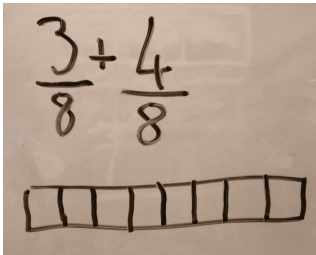
**Lesson 18**

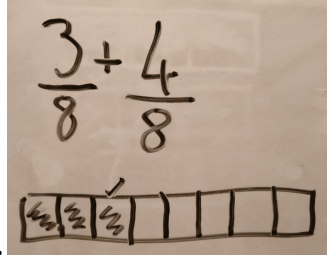
**LO: To add and subtract fractions**

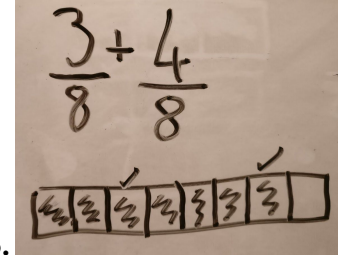
**Success Criteria:**

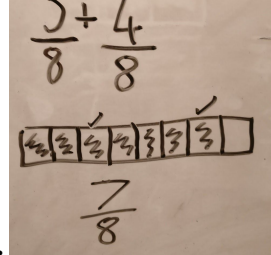
1. Look at your image
2. Shade the first fraction
3. Shade the second fraction
4. Add up and write your answer

**Model**

1. 

2. 

3. 

4. 



**3** — Numerator  
How many equal parts do you have?

**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**

**Practice:**

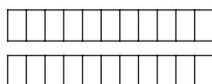
**Add up these fractions:**

1.

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

10/7 or 1 3/7

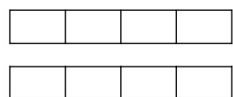
$$\frac{6}{11} + \frac{9}{11} = \frac{\square}{\square}$$



15/11 or 1 4/11

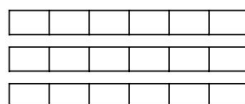
2.

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



6/4 or 1 2/4

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



16/6 or 2 4/6

3.

Fill in the missing numbers below.

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

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

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

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

$$\frac{7}{7} + \frac{6}{7} + \frac{2}{7} = \frac{10}{7} + \frac{5}{7} = \frac{15}{7}$$

$$\frac{16}{18} + \frac{7}{18} + \frac{2}{18} = \frac{14}{18} + \frac{11}{18} = \frac{25}{18}$$

$$\frac{9}{15} + \frac{12}{15} + \frac{11}{15} = \frac{17}{15} + \frac{15}{15} = \frac{32}{15}$$

$$\frac{12}{8} + \frac{11}{8} + \frac{6}{8} = \frac{17}{8} + \frac{12}{8} = \frac{29}{8}$$

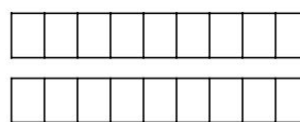
**Task 2**

**Practice:**

**Add up these fractions:**

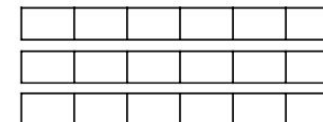
1.

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



12/9 or 24/18 and 1 3/9 or 1 6/18

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



17/6 and 2 5/6

2.

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

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

32/20 or 16/10 or 8/5 and 1 12/20

14/6 or 28/12 and 2 2/6 or 2 4/12

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

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

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

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

3.

$$\frac{1}{3} + \frac{5}{6} = \frac{4}{12} + \frac{20}{24} = \frac{7}{6} = 1 \frac{1}{6}$$

$$\frac{8}{6} + \frac{21}{12} = \frac{38}{24} + \frac{18}{12} = \frac{37}{12} = 3 \frac{1}{12}$$

4.

$$\frac{3}{4} + \frac{6}{8} = \frac{12}{16} + \frac{6}{8} = \frac{12}{8} = 1 \frac{4}{8}$$

$$\frac{7}{2} + \frac{9}{4} = \frac{28}{8} + \frac{36}{16} = \frac{23}{4} = 5 \frac{3}{4}$$

**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.

**6a. They are both correct because both calculations add up to  $\frac{12}{7}$ .**

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

$$\frac{11}{12}$$

$$\frac{5}{12}$$



$$\frac{3}{12}$$

$$\frac{8}{12}$$

**5b.  $\frac{11}{12} + \frac{8}{12}$  and  $\frac{3}{12} + \frac{5}{12} + \frac{11}{12}$**

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.



$\frac{14}{4}$  bottles



$\frac{12}{18}$  bottles



$\frac{44}{24}$  bottles



$\frac{7}{2}$  bottles



$\frac{13}{6}$  bottles



$\frac{6}{8}$  bottles



$\frac{25}{15}$  bottles



$\frac{4}{16}$  bottles



$\frac{35}{30}$  bottles

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

Various answers, for example:  $\frac{13}{6} + \frac{44}{24} + \frac{25}{15} + \frac{12}{18} + \frac{35}{30} = \frac{45}{6}$  bottles