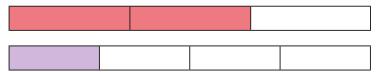
# Add and subtract fractions (2)

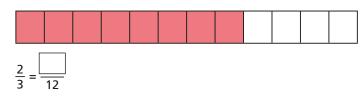


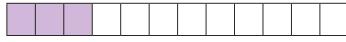
Amir is using fraction strips to work out  $\frac{2}{3} + \frac{1}{4}$ 



Amir says he needs to find a common denominator.

a) Complete Amir's method.





$$\frac{1}{4} = \frac{1}{12}$$

$$\frac{2}{3} + \frac{1}{4} = \frac{2}{12} + \frac{2}{12} = \frac{2}{12}$$

b) Show the addition on the fraction strip.



- c) Could you have used a different denominator?
- What common denominator can you use to add the fractions?

a) 
$$\frac{2}{5} + \frac{1}{2}$$

c) 
$$\frac{7}{8} - \frac{1}{4}$$

a) 
$$\frac{2}{5} + \frac{1}{2}$$
 c)  $\frac{7}{8} - \frac{1}{4}$  e)  $\frac{11}{15} + \frac{3}{10}$ 

**b)** 
$$\frac{2}{3} + \frac{4}{5}$$

**d)** 
$$\frac{7}{9} - \frac{1}{6}$$

Ron and Eva are working out  $\frac{1}{4} + \frac{5}{6}$ 

### Ron's method

$$\frac{1}{4} + \frac{5}{6} = \frac{3}{12} + \frac{10}{12} = \frac{13}{12}$$

#### Eva's method

$$\frac{1}{4} + \frac{5}{6} = \frac{6}{24} + \frac{20}{24} = \frac{26}{24}$$

- a) What is the same about Ron's and Eva's methods?
- b) What is different about their methods?
- c) Which method do you prefer? Why?



Complete the calculations.

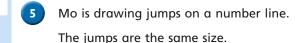


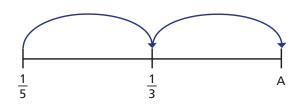
b) 
$$\frac{7}{8} - \frac{1}{3}$$

c) 
$$\frac{1}{2} - \frac{1}{7}$$

a) 
$$\frac{1}{5} + \frac{3}{4}$$
 b)  $\frac{7}{8} - \frac{1}{3}$  c)  $\frac{1}{2} - \frac{1}{7}$  d)  $\frac{11}{18} + \frac{7}{12}$ 







- a) What is the size of the jump?
- b) What is the value of A?

# Add and subtract fractions (2)



Ron and Eva are working out  $\frac{1}{4} + \frac{5}{6}$ 

### Ron's method

$$\frac{1}{4} + \frac{5}{6} = \frac{3}{12} + \frac{10}{12} = \frac{13}{12}$$

#### Eva's method

$$\frac{1}{4} + \frac{5}{6} = \frac{6}{24} + \frac{20}{24} = \frac{26}{24}$$

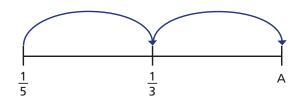
- a) What is the same about Ron's and Eva's methods?
- b) What is different about their methods?
- c) Which method do you prefer? Why?



Complete the calculations.



Mo is drawing jumps on a number line. The jumps are the same size.



- a) What is the size of the jump?
- b) What is the value of A?

Complete the bar model.

<u>5</u>	<u>1</u>	<u>5</u>
18	6	9

Work out the additions.

Give your answers as mixed numbers and as improper fractions.

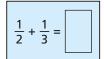
a) 
$$\frac{4}{5} + \frac{5}{4}$$

a)  $\frac{4}{5} + \frac{5}{4}$  b)  $\frac{2}{3} + \frac{3}{2}$  c)  $\frac{9}{8} + \frac{8}{9}$  d)  $\frac{5}{3} + \frac{3}{5}$ 

What patterns do you notice?



Look at these additions.



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

$$\frac{1}{2} + \frac{1}{3} + \frac{1}{4} + \frac{1}{5} = \boxed{ }$$

- a) When does this pattern first give an answer greater than 2?
- b) Do you think the pattern will ever give an answer greater than 100?

