



# Add fractions

1 Complete the additions.

Use the bar models to help you.

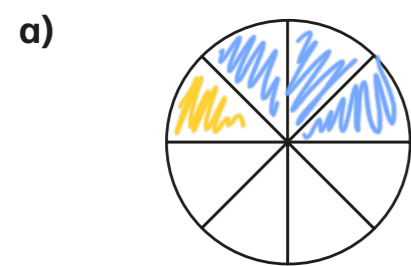
a)   $\frac{1}{3} + \frac{1}{3} = \frac{2}{3}$

b)   $\frac{1}{5} + \frac{1}{5} = \frac{2}{5}$

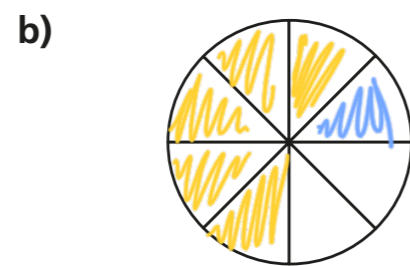
c)   $\frac{1}{5} + \frac{2}{5} = \frac{3}{5}$

d)   $\frac{1}{5} + \frac{3}{5} = \frac{4}{5}$

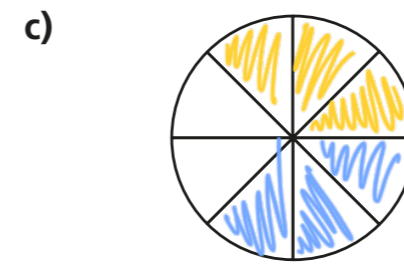
2 Shade the circles and complete the additions.



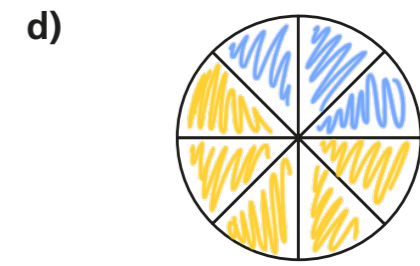
$$\frac{1}{8} + \frac{3}{8} = \frac{4}{8}$$



$$\frac{5}{8} + \frac{1}{8} = \frac{6}{8}$$

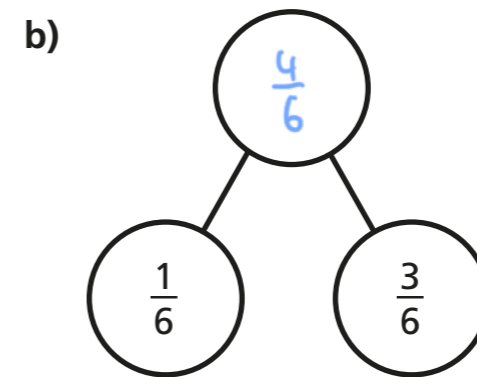
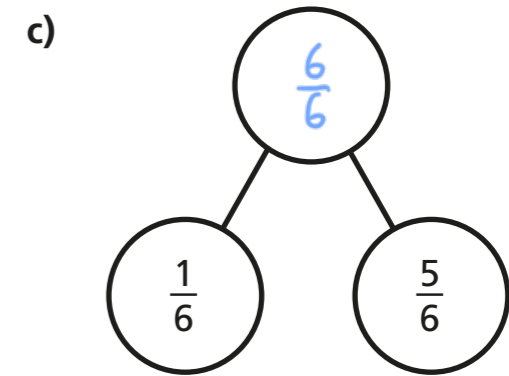
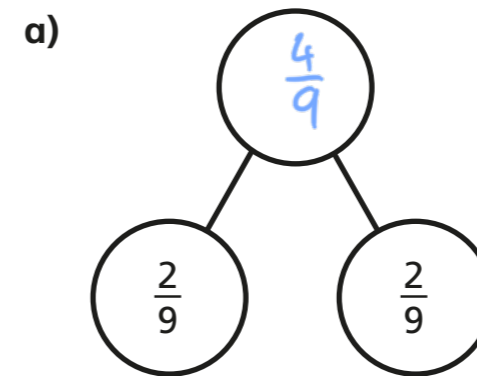


$$\frac{3}{8} + \frac{3}{8} = \frac{6}{8}$$



$$\frac{5}{8} + \frac{3}{8} = \frac{8}{8}$$

3 Complete the part-whole models.



Which part-whole model is the odd one out? various

Talk about your choice with a partner. Did they choose the same odd one out?



- 4 Alex and Huan are eating a cake.

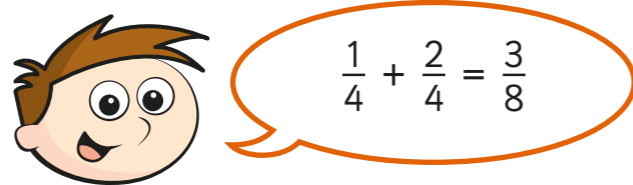
Alex eats  $\frac{4}{7}$  of the cake.

Huan eats  $\frac{2}{7}$  of the cake.

What fraction of the cake have they eaten altogether?

They have eaten  $\frac{6}{7}$  of the cake altogether.

- 5 Teddy is adding fractions.



- a) Draw a bar model to show that Teddy is wrong.



$$\frac{1}{4} + \frac{2}{4} = \frac{3}{4} \quad \text{not } \frac{3}{8}$$

- b) Complete the addition  $\frac{1}{4} + \frac{2}{4} = \frac{3}{4}$

- 6 Annie has baked 12 muffins.



She puts them into 2 boxes.

What fraction of the muffins could she put in each box?

Complete the table to show four possibilities.

One has been done for you.

Box 1	Box 2
$\frac{1}{12}$	$\frac{11}{12}$
$\frac{2}{12}$	$\frac{10}{12}$
$\frac{3}{12}$	$\frac{9}{12}$
$\frac{4}{12}$	$\frac{8}{12}$
$\frac{5}{12}$	$\frac{7}{12}$
$\frac{6}{12}$	$\frac{6}{12}$

Are there any other possibilities? Talk about it with a partner.

- 7 Complete the additions.

a)  $\frac{3}{8} + \frac{4}{8} = \frac{7}{8}$

d)  $\frac{3}{103} + \frac{4}{103} = \frac{7}{103}$

b)  $\frac{3}{9} + \frac{4}{9} = \frac{7}{9}$

e)  $\frac{5}{31} + \frac{9}{31} = \frac{14}{31}$

c)  $\frac{3}{29} + \frac{4}{29} = \frac{7}{29}$

f)  $\frac{17}{111} + \frac{33}{111} = \frac{50}{111}$