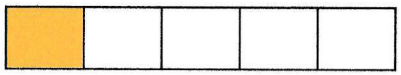
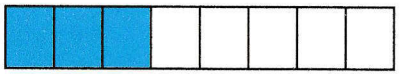
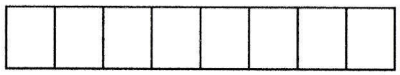
Add 2 or more fractions

1 Complete the additions.

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

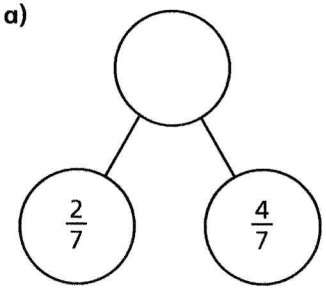
b)  $\frac{1}{5} + \frac{3}{5} = \square$

c)  $\frac{3}{8} + \frac{3}{8} = \square$

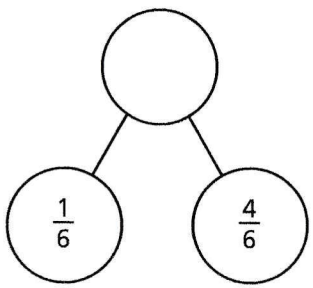
d)  $\frac{3}{8} + \frac{1}{8} = \square$

2 Complete the part-whole models.

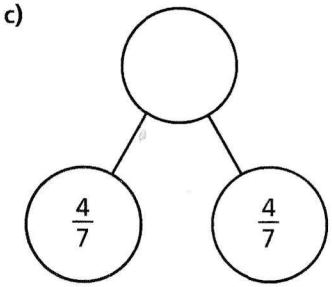
a)



b)



c)



Use bar models to help you.

3 Complete the additions.

a) $\frac{3}{7} + \frac{3}{7} = \square$

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

c) $\frac{4}{5} + \frac{3}{5} = \square = \square$

d) $\frac{8}{5} + \frac{6}{5} = \square = \square$

e) $\frac{8}{11} + \frac{6}{11} = \square = \square$

f) $\frac{4}{11} + \frac{4}{11} + \frac{6}{11} = \square = \square$

g) $\frac{3}{11} + \frac{3}{11} + \frac{8}{11} = \square = \square$

h) $\frac{3}{7} + \frac{3}{7} + \frac{8}{7} = \square = \square$

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

What could the missing numerators be?

Give four different possibilities.

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

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

Challenge

6 Complete the number sentences.

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

b) $\frac{3}{8} + \frac{\square}{8} = 1$

c) $\frac{3}{16} + \frac{\square}{\square} = 1$

d) $\frac{4}{9} + \frac{\square}{9} = \frac{11}{9} = 1\frac{\square}{9}$

e) $\frac{4}{9} + \frac{\square}{9} = \frac{13}{9} = 1\frac{\square}{9}$

f) $\frac{4}{9} + \frac{\square}{9} = \frac{\square}{9} = 1\frac{7}{9}$

g) $\frac{5}{7} + \frac{\square}{7} + \frac{5}{7} = 2$

h) $\frac{5}{7} + \frac{\square}{7} + \frac{5}{7} = 3$

Challenge

7 Rosie, Whitney and Teddy have each been for a walk.

Rosie walked $\frac{5}{8}$ km.

Whitney walked $\frac{7}{8}$ km.

Teddy walked $\frac{3}{8}$ km.

a) How far did they walk altogether? $\square$ km

b) Jack also went for a walk.

Altogether the four children walked 3 km.

How far did Jack walk? $\square$ km