

Add 2 or more fractions



1 Complete the additions.

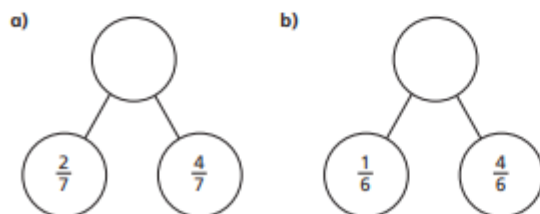
a)  $\frac{1}{5} + \frac{2}{5} = \square$

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

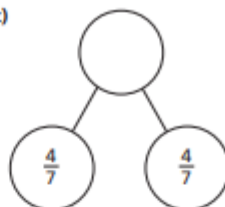
c)  $\frac{3}{8} + \frac{3}{8} = \square$

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

2 Complete the part-whole models.



c)



d) Which part-whole model is the odd one out?

Explain your choice to a partner.

Did you both have the same answer?

3 Complete the additions.

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

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

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

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

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

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

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

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.

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

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

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

5

Tommy is adding fractions.



$$\frac{3}{4} + \frac{3}{4} = \frac{6}{8}$$

Explain why Tommy is incorrect.

6

Complete the number sentences.

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

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

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

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

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

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

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

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

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?

 km

b) Jack also went for a walk.

Altogether the four children walked 3 km.

How far did Jack walk?

 km

(Answers below)

Add 2 or more fractions



1 Complete the additions.

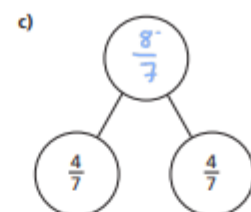
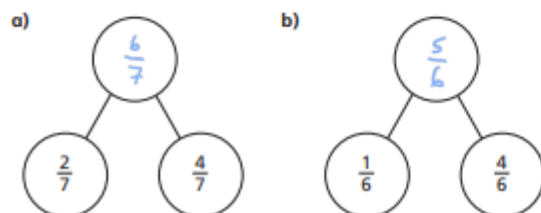
a)  $\frac{1}{5} + \frac{2}{5} = \frac{3}{5}$

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

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

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

2 Complete the part-whole models.



d) Which part-whole model is the odd one out?

Explain your choice to a partner.

Did you both have the same answer?

3 Complete the additions.

a) $\frac{3}{7} + \frac{3}{7} = \frac{6}{7}$

e) $\frac{8}{11} + \frac{6}{11} = \frac{14}{11} = 1\frac{3}{11}$

b) $\frac{3}{7} + \frac{4}{7} = \frac{7}{7} = 1$

f) $\frac{4}{11} + \frac{4}{11} + \frac{6}{11} = \frac{14}{11} = 1\frac{3}{11}$

c) $\frac{4}{5} + \frac{3}{5} = \frac{7}{5} = 1\frac{2}{5}$

g) $\frac{3}{11} + \frac{3}{11} + \frac{8}{11} = \frac{14}{11} = 1\frac{3}{11}$

d) $\frac{8}{5} + \frac{6}{5} = \frac{14}{5} = 2\frac{4}{5}$

h) $\frac{3}{7} + \frac{3}{7} + \frac{8}{7} = \frac{14}{7} = 2$

4

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

What could the missing numerators be?

Give four different possibilities.

e.g. $\frac{1}{4} + \frac{8}{4} = \frac{9}{4}$ $\frac{3}{4} + \frac{6}{4} = \frac{9}{4}$

$$\frac{2}{4} + \frac{7}{4} = \frac{9}{4} \quad \frac{4}{4} + \frac{5}{4} = \frac{9}{4}$$

5

Tommy is adding fractions.



$$\frac{3}{4} + \frac{3}{4} = \frac{6}{8}$$

Explain why Tommy is incorrect.



He has added the denominators when he shouldn't have. Each whole is still split into quarters so
 $\frac{3}{4} + \frac{3}{4} = \frac{6}{4}$

6

Complete the number sentences.

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

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

b) $\frac{3}{8} + \frac{\boxed{5}}{8} = 1$

f) $\frac{4}{9} + \frac{\boxed{12}}{9} = \frac{\boxed{16}}{9} = 1\frac{7}{9}$

c) $\frac{3}{16} + \frac{\boxed{13}}{\boxed{16}} = 1$

g) $\frac{5}{7} + \frac{\boxed{4}}{7} + \frac{5}{7} = 2$

d) $\frac{4}{9} + \frac{\boxed{7}}{9} = \frac{11}{9} = 1\frac{\boxed{2}}{9}$

h) $\frac{5}{7} + \frac{\boxed{11}}{7} + \frac{5}{7} = 3$

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?

$$\boxed{1\frac{3}{8}} \text{ km}$$

b) Jack also went for a walk.

Altogether the four children walked 3 km.

How far did Jack walk?

$$\boxed{1\frac{1}{8}} \text{ km}$$