

Add 2 or more fractions



1 Complete the additions.



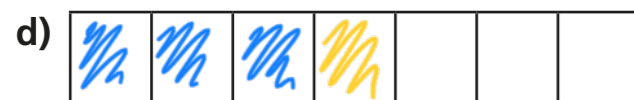
$$\frac{1}{5} + \frac{2}{5} = \frac{3}{5}$$



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

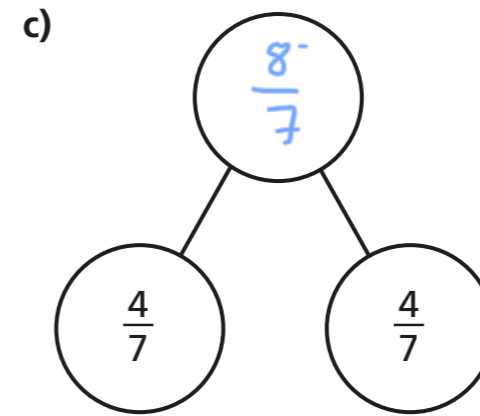
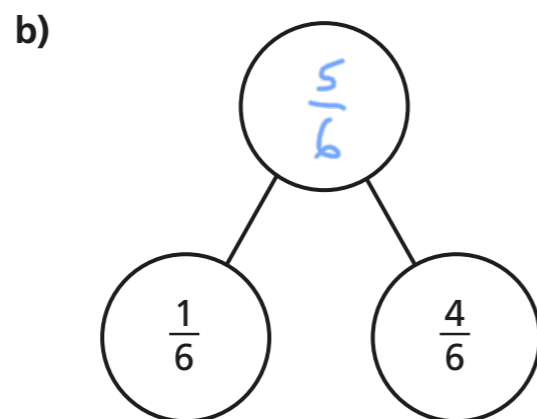
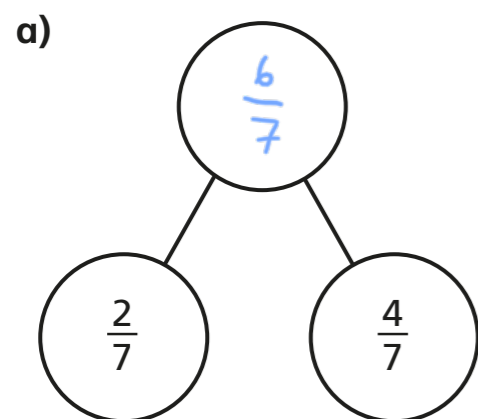


$$\frac{3}{8} + \frac{3}{8} = \frac{6}{8}$$



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

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

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

What could the missing numerators be?

Give four different possibilities.

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

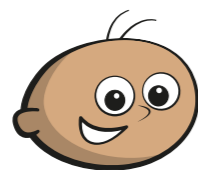
$$\frac{3}{4} + \frac{6}{4} = \frac{9}{4}$$

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

$$\frac{4}{4} + \frac{5}{4} = \frac{9}{4}$$

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

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

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

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

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

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

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

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

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?

$$1\frac{7}{8} \text{ km}$$

b) Jack also went for a walk.

Altogether the four children walked 3 km.

How far did Jack walk?

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