Add 2 or more fractions

1 Complete the additions.

a)

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

b)

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

c)

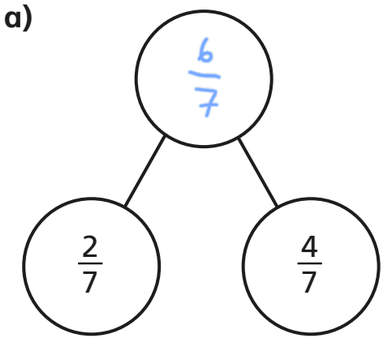
$\frac{3}{8} + \frac{3}{8} = \boxed{\frac{6}{8}}$

d)

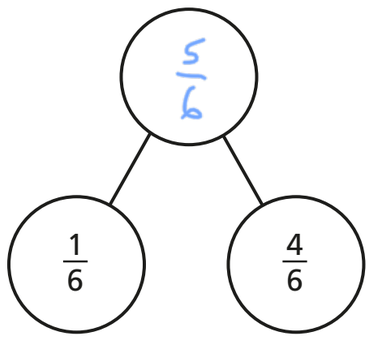
$\frac{3}{8} + \frac{1}{8} = \boxed{\frac{4}{8}}$

2 Complete the part-whole models.

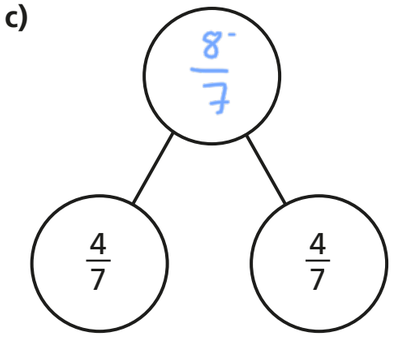
a)



b)



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

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

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

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

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

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

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

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

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

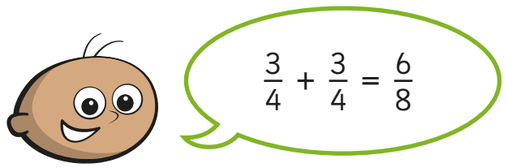
What could the missing numerators be?

Give four different possibilities.

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

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

5 Tommy is adding fractions.



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

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

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

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

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

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

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

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

b) Jack also went for a walk.

Altogether the four children walked 3 km.

How far did Jack walk? $1\frac{1}{8}$ km