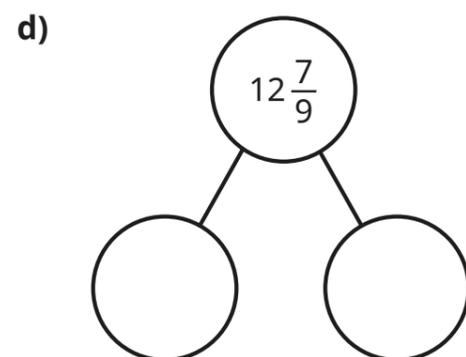
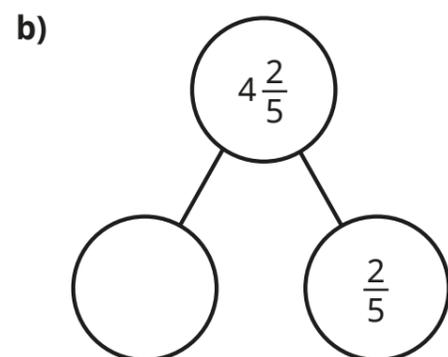
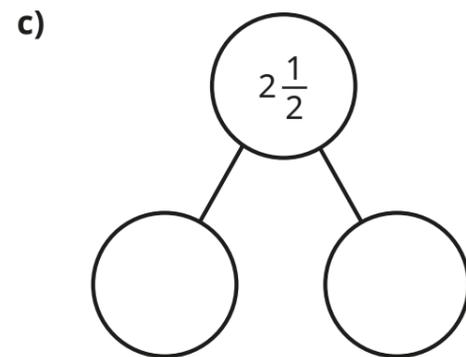
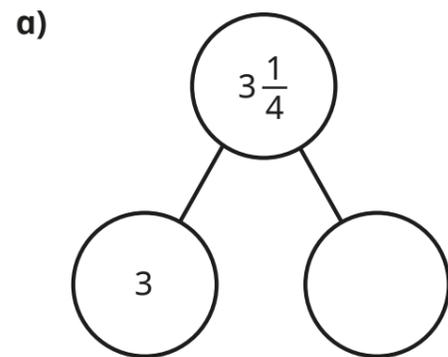
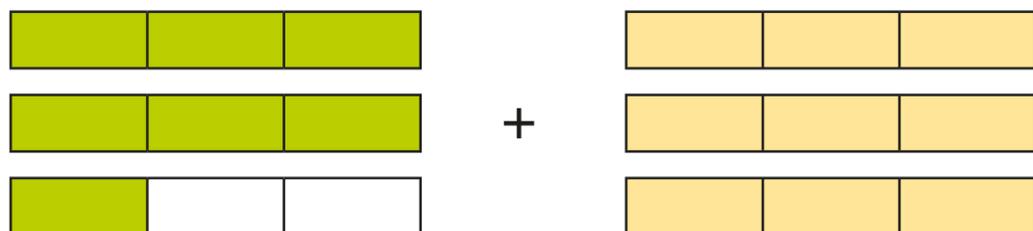


# Add to a mixed number

1 Complete the part-whole models.



2 Filip is using bar models to add  $2\frac{1}{3}$  and 3



Complete Filip's workings.

$$\frac{1}{3} + 3 = 2 + 3 + \frac{1}{3} = \boxed{\phantom{00}}$$

3 Complete the additions.

a)  $4\frac{1}{5} + 3 = \boxed{\phantom{00}}$

e)  $12 + 3\frac{7}{8} = \boxed{\phantom{00}}$

b)  $3\frac{4}{7} + 5 = \boxed{\phantom{00}}$

f)  $26\frac{2}{5} + 17 = \boxed{\phantom{00}}$

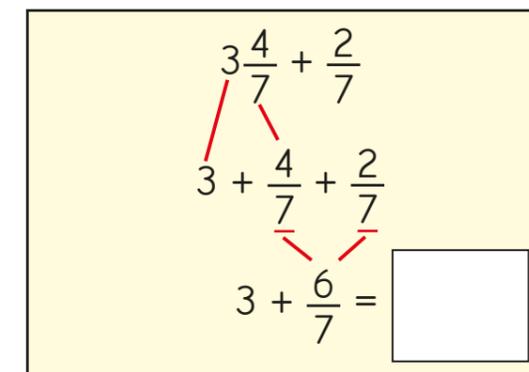
c)  $7 + 2\frac{1}{4} = \boxed{\phantom{00}}$

g)  $3\frac{1}{9} + 4 + 6 = \boxed{\phantom{00}}$

d)  $5 + 5\frac{4}{9} = \boxed{\phantom{00}}$

h)  $8 + 8\frac{8}{11} + 12 = \boxed{\phantom{00}}$

4 Here is Brett's method for working out  $3\frac{4}{7} + \frac{2}{7}$

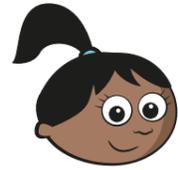


Use Brett's method to work out the additions.

a)  $5\frac{4}{9} + \frac{3}{9} = \boxed{\phantom{00}}$

b)  $\frac{7}{11} + 4\frac{3}{11} = \boxed{\phantom{00}}$

- 5 Sam and Tommy are finding the sum of  $3\frac{3}{10}$  and  $\frac{2}{10}$



$$3\frac{3}{10} + \frac{2}{10} = 3\frac{5}{10}$$

Sam

$$3\frac{3}{10} + \frac{2}{10} = 3\frac{1}{2}$$



Tommy

Who do you agree with? \_\_\_\_\_

Explain your reasoning.



- 6 Complete the additions.

Use equivalent fractions in your answer, if possible.

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

c)  $\frac{2}{12} + 3\frac{7}{12} =$

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

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

- 7 Nijah is using equivalent fractions to work out  $2\frac{1}{2} + \frac{3}{8}$

$$2\frac{1}{2} + \frac{3}{8} = 2\frac{4}{8} + \frac{3}{8} = 2\frac{7}{8}$$

Use Nijah's method to work out the additions.

a)  $4\frac{1}{3} + \frac{4}{9} =$

b)  $\frac{1}{4} + 5\frac{5}{12} =$

- 8 Tiny is finding the sum of  $\frac{2}{9}$  and  $3\frac{1}{3}$



$$\frac{2}{9} + 3\frac{1}{3} = 3\frac{3}{12}$$

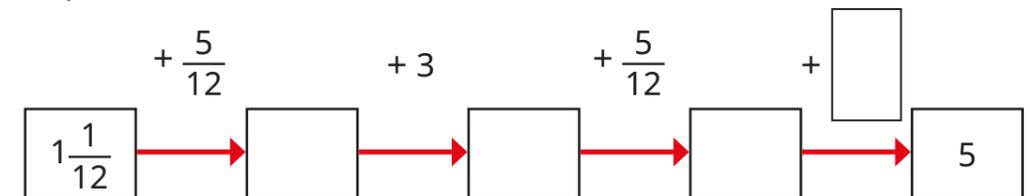
- a) What mistake has Tiny made?

\_\_\_\_\_

\_\_\_\_\_

- b) What is the correct answer?

- 9 Complete the calculations.



- 10 Work out the missing numbers.

$$5\frac{\boxed{\phantom{00}}}{3} + \frac{2}{\boxed{\phantom{00}}} = \boxed{\phantom{00}} + 3\frac{8}{9}$$