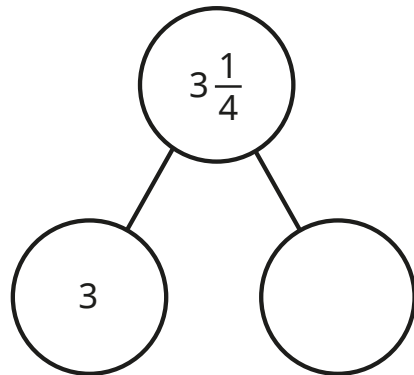


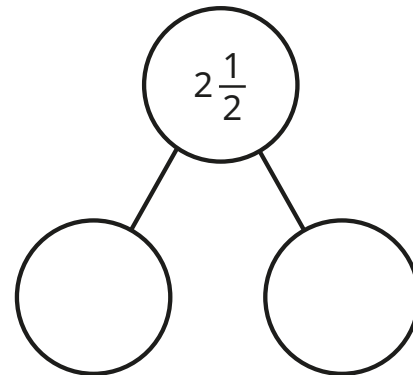
Add to a mixed number

1 Complete the part-whole models.

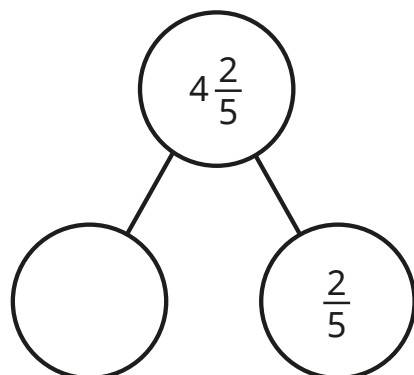
a)



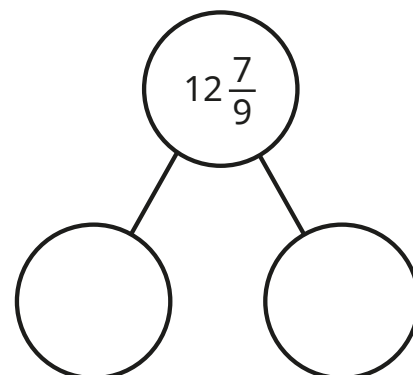
c)



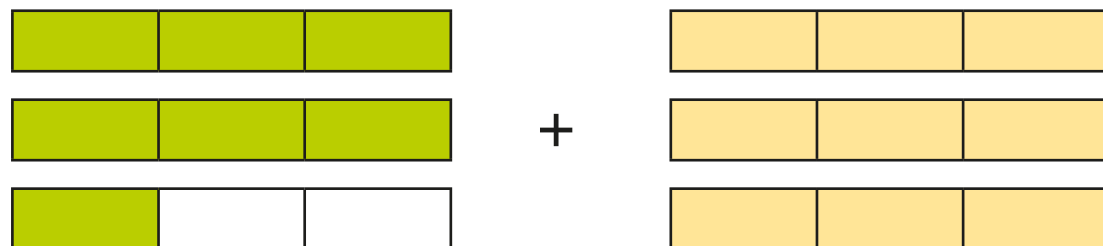
b)



d)



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



Complete Filip's workings.

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

3 Complete the additions.

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

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

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

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

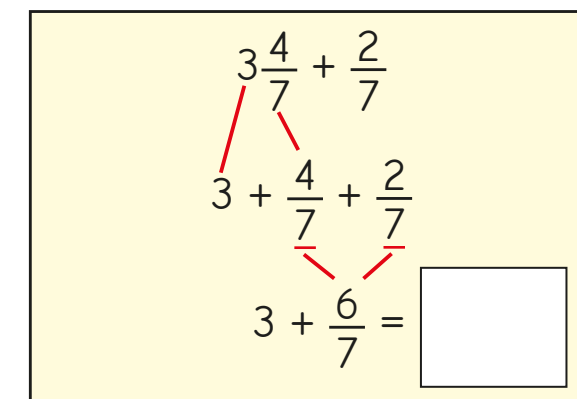
c) $7 + 2\frac{1}{4} = \boxed{}$

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

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

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

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

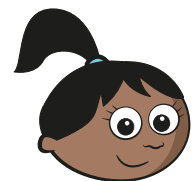


Use Brett's method to work out the additions.

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

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

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



Sam

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

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



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 $2\frac{1}{2} + \frac{3}{8}$

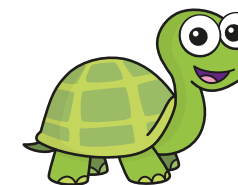
$$2\frac{1}{2} + \frac{3}{8} = 2\frac{4}{8} + \frac{3}{8} = 2\frac{7}{8}$$

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 $3\frac{1}{3}$

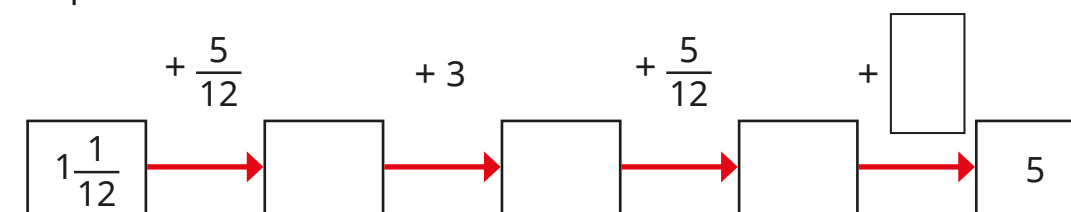


$$\frac{2}{9} + 3\frac{1}{3} = 3\frac{3}{12}$$

- a) What mistake has Tiny made?

- b) What is the correct answer?

- 9 Complete the calculations.



- 10 Work out the missing numbers.

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