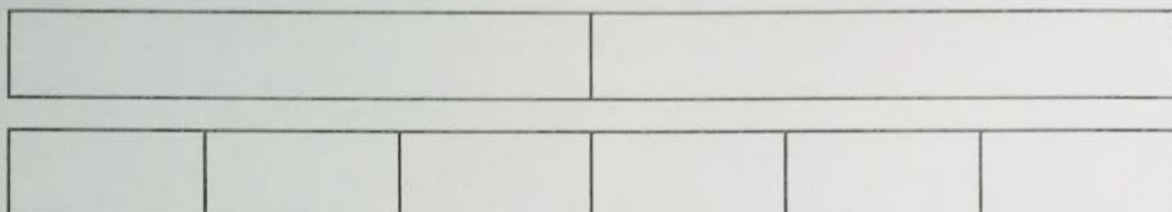


1

Complete the additions.

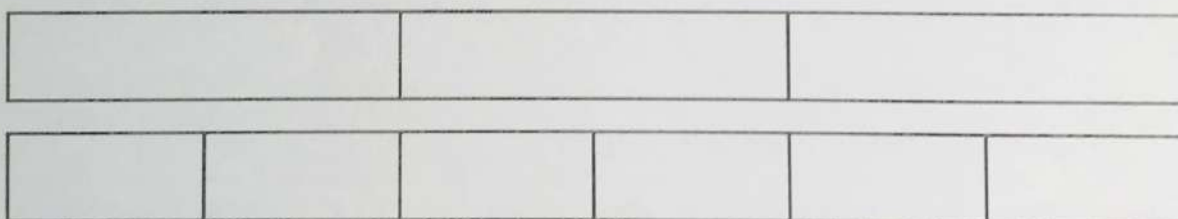
Use the bar models to help you.

a)



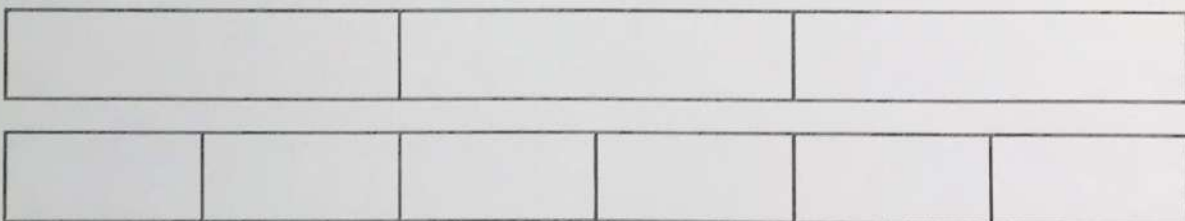
$$\frac{1}{2} + \frac{1}{6} = \boxed{\phantom{000}}$$

b)



$$\frac{1}{3} + \frac{1}{6} = \boxed{\phantom{000}}$$

c)



$$\frac{2}{3} + \frac{1}{6} = \boxed{\phantom{000}}$$

2

Match the additions that have the same answer.

$$\frac{3}{4} + \frac{1}{12}$$

$$\frac{10}{12} + \frac{1}{12}$$

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

$$\frac{6}{12} + \frac{1}{12}$$

$$\frac{5}{6} + \frac{1}{12}$$

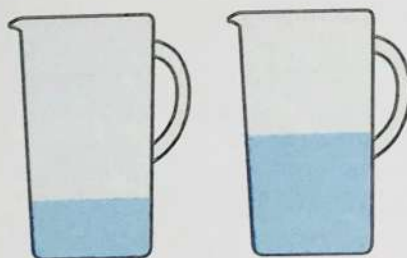
$$\frac{9}{12} + \frac{1}{12}$$

$$\frac{1}{2} + \frac{1}{12}$$

$$\frac{8}{12} + \frac{1}{12}$$

3

Here are two jugs.



One jug contains  $\frac{5}{18}$  litres of water.

The other jug contains  $\frac{4}{9}$  litres of water.

How many litres of water are there altogether?

There are

litres of water altogether.

4

a) Complete the calculations.

$$\frac{1}{5} + \frac{1}{10} = \boxed{\phantom{00}}$$

$$\frac{2}{5} + \frac{1}{10} = \boxed{\phantom{00}}$$

$$\frac{3}{5} + \frac{1}{10} = \boxed{\phantom{00}}$$

$$\frac{4}{5} + \frac{1}{10} = \boxed{\phantom{00}}$$

$$\frac{1}{16} + \frac{5}{32} = \boxed{\phantom{00}}$$

$$\frac{1}{8} + \frac{5}{32} = \boxed{\phantom{00}}$$

$$\frac{1}{4} + \frac{5}{32} = \boxed{\phantom{00}}$$

$$\frac{1}{2} + \frac{5}{32} = \boxed{\phantom{00}}$$

b) Can you spot any patterns? Talk to a partner about it.

c) What calculation would come next in each set?

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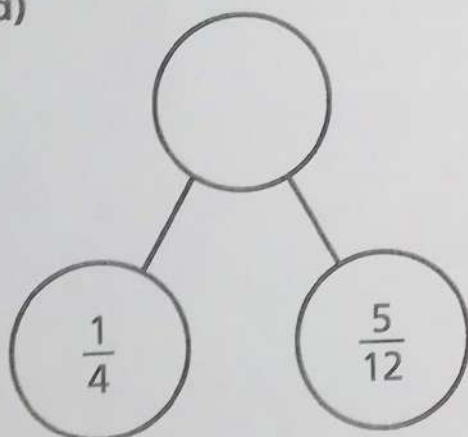


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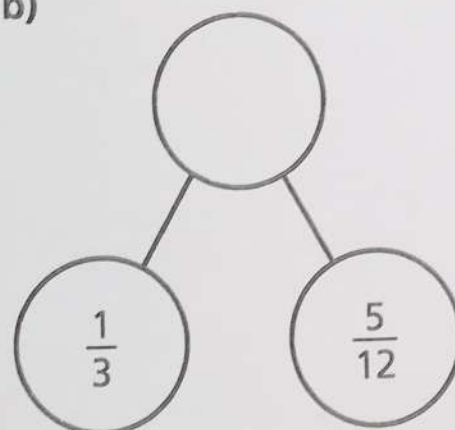
5

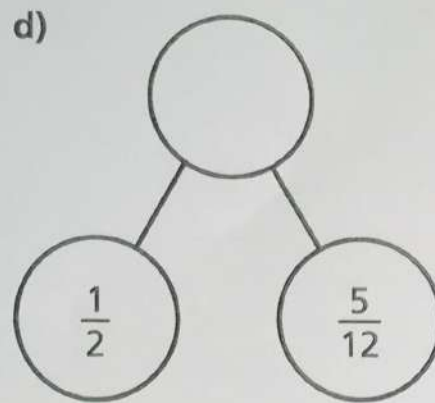
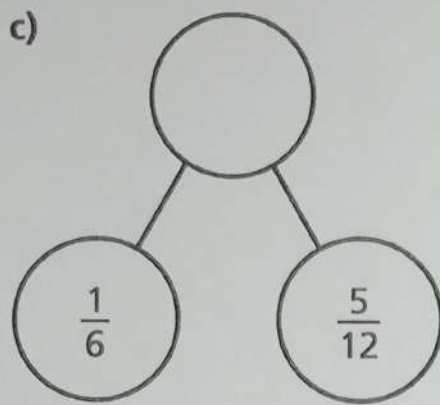
Complete the part-whole models.

a)



b)





6

$$\frac{\boxed{\phantom{00}}}{8} + \frac{\boxed{\phantom{00}}}{16} = \frac{7}{8}$$

What could the missing numerators be?

Give six different possibilities.

$$\frac{\boxed{\phantom{00}}}{8} + \frac{\boxed{\phantom{00}}}{16} = \frac{7}{8}$$

$$\frac{\boxed{\phantom{00}}}{8} + \frac{\boxed{\phantom{00}}}{16} = \frac{7}{8}$$

$$\frac{\boxed{\phantom{00}}}{8} + \frac{\boxed{\phantom{00}}}{16} = \frac{7}{8}$$

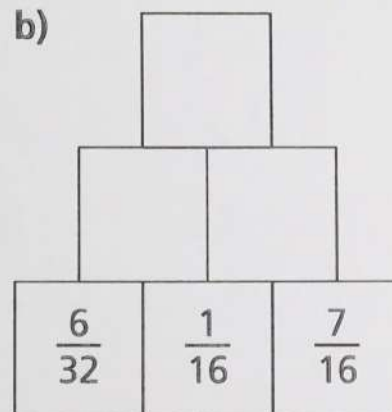
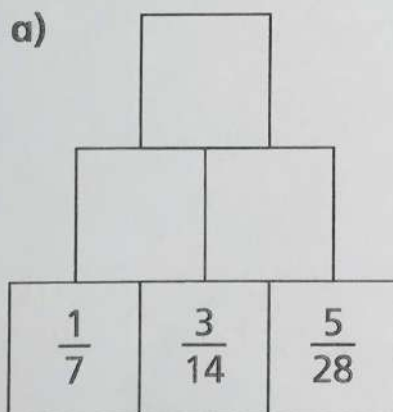
$$\frac{\boxed{\phantom{00}}}{8} + \frac{\boxed{\phantom{00}}}{16} = \frac{7}{8}$$

$$\frac{\boxed{\phantom{00}}}{8} + \frac{\boxed{\phantom{00}}}{16} = \frac{7}{8}$$

$$\frac{\boxed{\phantom{00}}}{8} + \frac{\boxed{\phantom{00}}}{16} = \frac{7}{8}$$

7

Complete the addition pyramids.



c) What fraction is equivalent to both of the fractions at the top of the pyramids?