

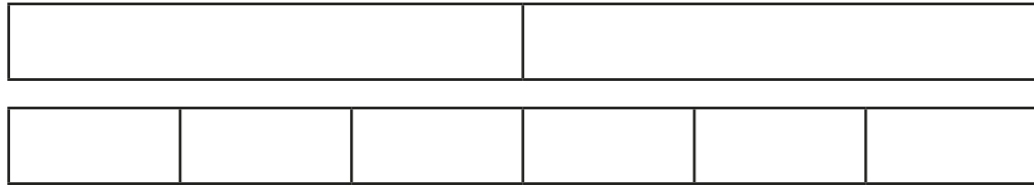
Add fractions within 1



1 Complete the additions.

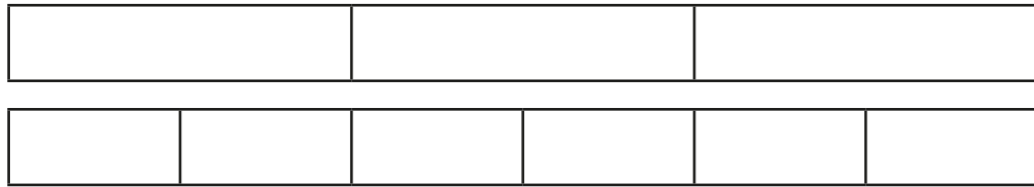
Use the bar models to help you.

a)



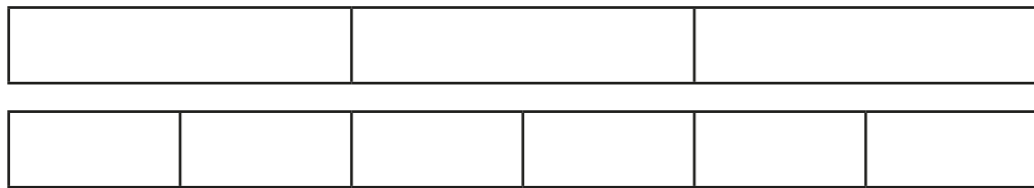
$$\frac{1}{2} + \frac{1}{6} = \square$$

b)



$$\frac{1}{3} + \frac{1}{6} = \square$$

c)



$$\frac{2}{3} + \frac{1}{6} = \square$$

2 Match the additions that have the same answer.

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

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

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

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

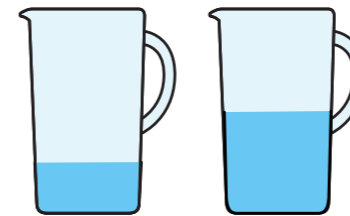
$$\frac{5}{6} + \frac{1}{12}$$

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

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

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

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.

$$\frac{1}{5} + \frac{1}{10} = \square$$

$$\frac{2}{5} + \frac{1}{10} = \square$$

$$\frac{3}{5} + \frac{1}{10} = \square$$

$$\frac{4}{5} + \frac{1}{10} = \square$$

$$\frac{1}{16} + \frac{5}{32} = \square$$

$$\frac{1}{8} + \frac{5}{32} = \square$$

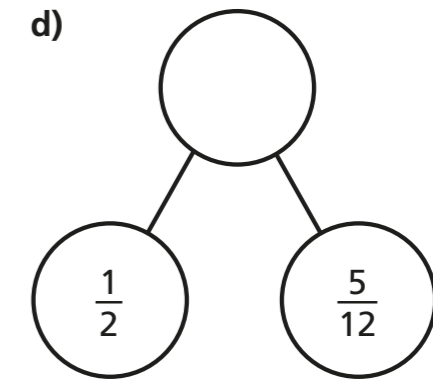
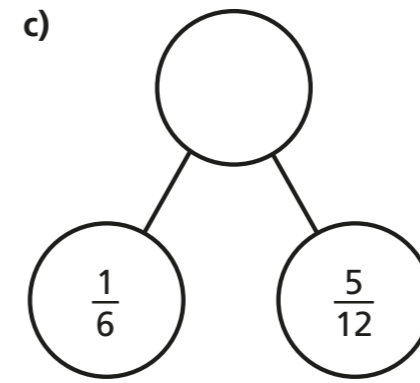
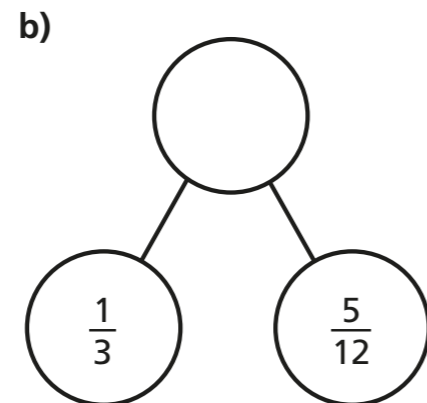
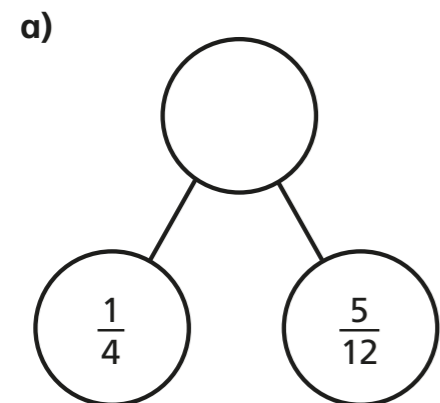
$$\frac{1}{4} + \frac{5}{32} = \square$$

$$\frac{1}{2} + \frac{5}{32} = \square$$

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

c) What calculation would come next in each set?

5 Complete the part-whole models.



6

$$\frac{\square}{8} + \frac{\square}{16} = \frac{7}{8}$$

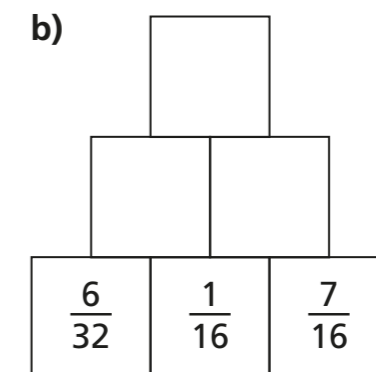
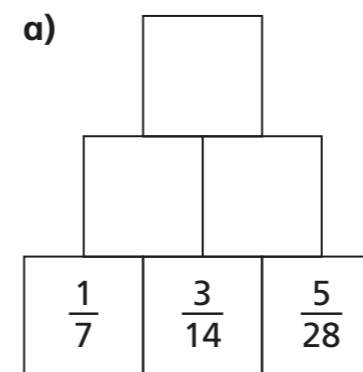
What could the missing numerators be?

Give six different possibilities.

$$\frac{\square}{8} + \frac{\square}{16} = \frac{7}{8} \quad \frac{\square}{8} + \frac{\square}{16} = \frac{7}{8} \quad \frac{\square}{8} + \frac{\square}{16} = \frac{7}{8}$$

$$\frac{\square}{8} + \frac{\square}{16} = \frac{7}{8} \quad \frac{\square}{8} + \frac{\square}{16} = \frac{7}{8} \quad \frac{\square}{8} + \frac{\square}{16} = \frac{7}{8}$$

7 Complete the addition pyramids.



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