

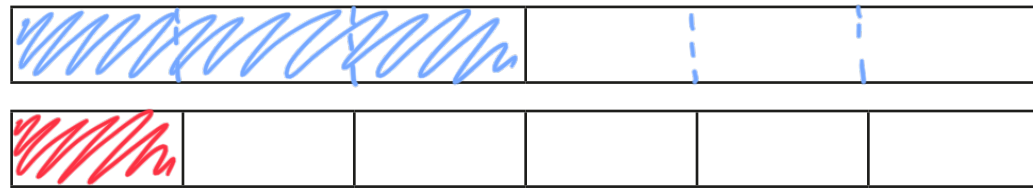
Add fractions within 1



1 Complete the additions.

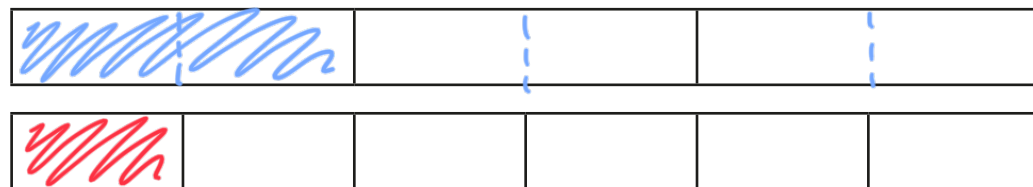
Use the bar models to help you.

a)



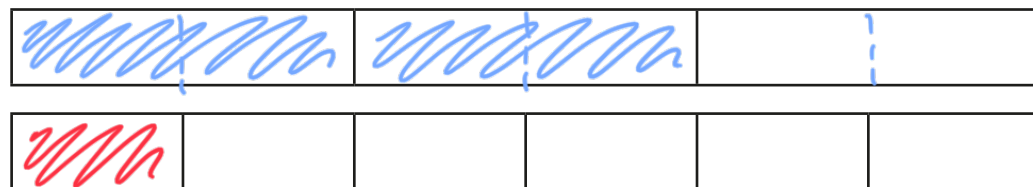
$$\frac{1}{2} + \frac{1}{6} = \frac{2}{3}$$

b)



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

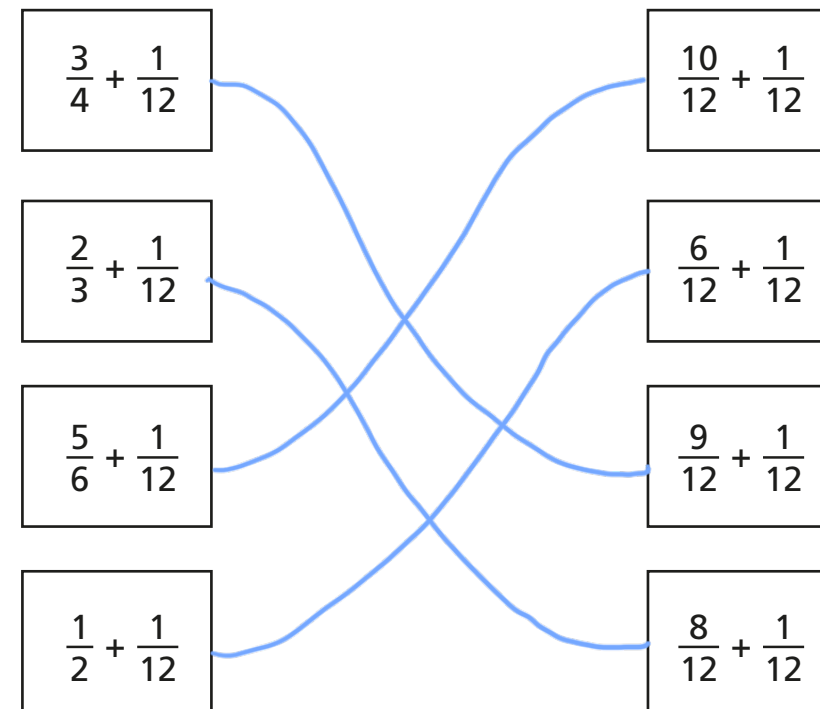
c)



$$\frac{2}{3} + \frac{1}{6} = \frac{5}{6}$$

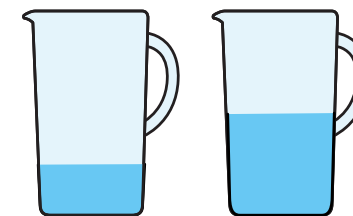
2

Match the additions that have the same answer.



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 $\frac{13}{18}$ litres of water altogether.

- 4 a) Complete the calculations.

$\frac{1}{5} + \frac{1}{10} = \frac{3}{10}$	$\frac{1}{16} + \frac{5}{32} = \frac{7}{32}$
$\frac{2}{5} + \frac{1}{10} = \frac{5}{10}$	$\frac{1}{8} + \frac{5}{32} = \frac{9}{32}$
$\frac{3}{5} + \frac{1}{10} = \frac{7}{10}$	$\frac{1}{4} + \frac{5}{32} = \frac{13}{32}$
$\frac{4}{5} + \frac{1}{10} = \frac{9}{10}$	$\frac{1}{2} + \frac{5}{32} = \frac{21}{32}$

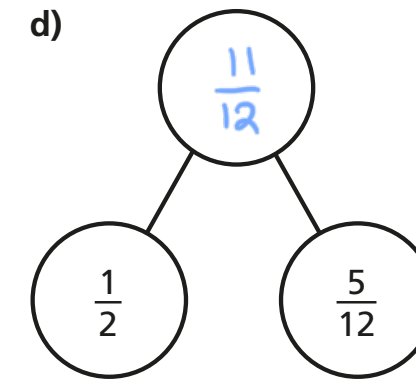
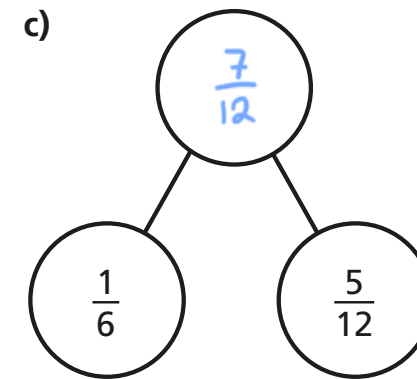
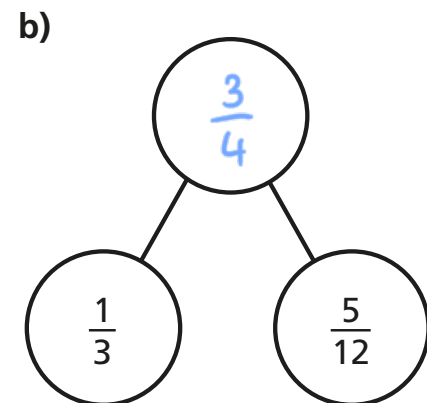
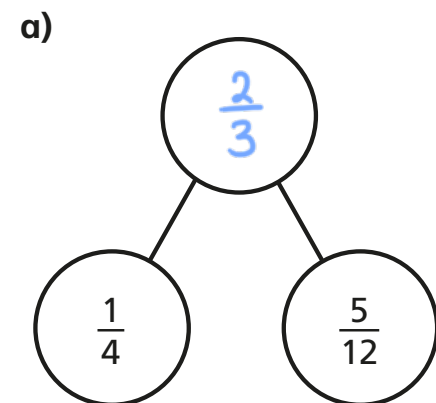
- b) Can you spot any patterns? Talk to a partner about it.

- c) What calculation would come next in each set?

$$\frac{5}{5} + \frac{1}{10} = \frac{11}{10} = 1\frac{1}{10}$$

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

- 5 Complete the part-whole models.



6

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

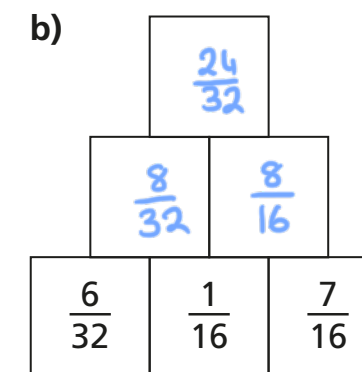
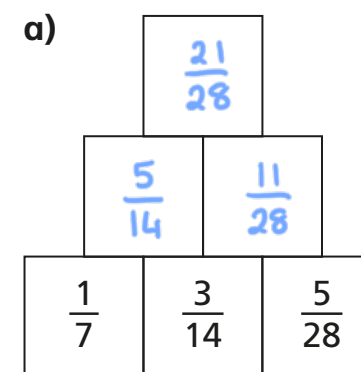
What could the missing numerators be?

Give six different possibilities.

$\frac{1}{8} + \frac{12}{16} = \frac{7}{8}$	$\frac{3}{8} + \frac{8}{16} = \frac{7}{8}$	$\frac{5}{8} + \frac{4}{16} = \frac{7}{8}$
$\frac{2}{8} + \frac{10}{16} = \frac{7}{8}$	$\frac{4}{8} + \frac{6}{16} = \frac{7}{8}$	$\frac{6}{8} + \frac{2}{16} = \frac{7}{8}$

7

Complete the addition pyramids.



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

$$\frac{3}{4}$$