White Rose Maths

1 Complete the additions.

Use bar models to help you.

a) $\frac{1}{2} + \frac{1}{6} = \boxed{}$

b) $\frac{1}{3} + \frac{1}{6} = \boxed{}$

c) $\frac{2}{3} + \frac{1}{6} = \boxed{}$

2 Match the additions that have the same answer.

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

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

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

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

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

$\boxed{\frac{9}{12} + \frac{1}{12}}$
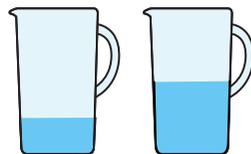
$\boxed{\frac{1}{2} + \frac{1}{12}}$

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

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?

4 a) Complete the calculations.

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

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

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

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

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

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

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

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

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

c) What calculation would come next in each set?
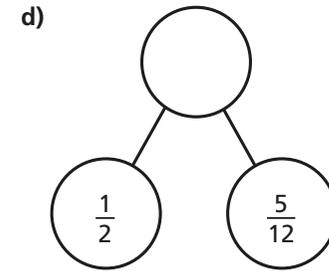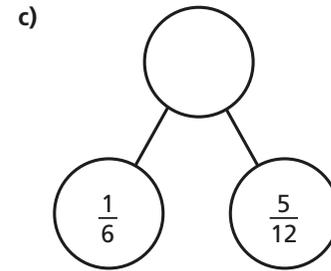
5 Complete the part-whole models.

a)

$\frac{1}{4}$ $\frac{5}{12}$

b)

$\frac{1}{3}$ $\frac{5}{12}$

4 **a)** Complete the calculations.

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

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

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

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

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

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

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

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

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

c) What calculation would come next in each set?
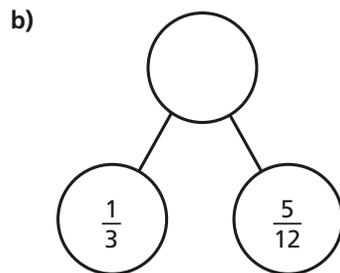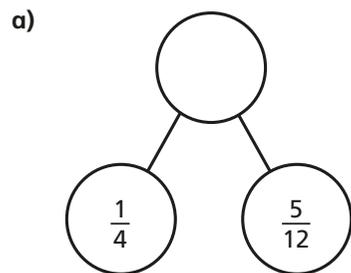
5 Complete the part-whole models.

a)

$\frac{1}{4}$ $\frac{5}{12}$

b)

$\frac{1}{3}$ $\frac{5}{12}$

c)

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

d)

$\frac{1}{2}$ $\frac{5}{12}$

6

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

What could the missing numerators be?

Give six different possibilities.

7 Complete the addition pyramids.

a)

$\frac{1}{7}$	$\frac{3}{14}$	$\frac{5}{28}$

b)

$\frac{6}{32}$	$\frac{1}{16}$	$\frac{7}{16}$
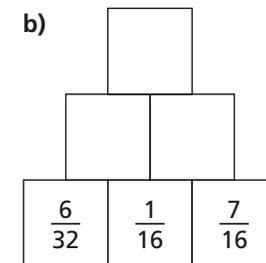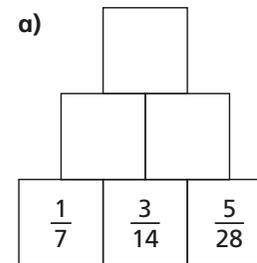
c) What fraction is equivalent to both of the fractions at the top of the pyramids?