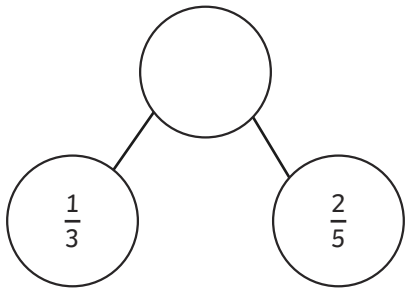
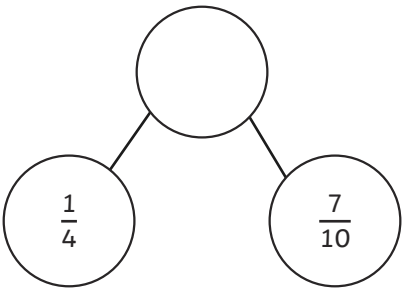
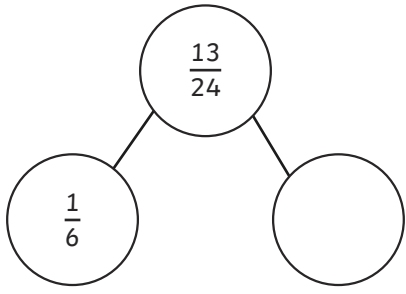
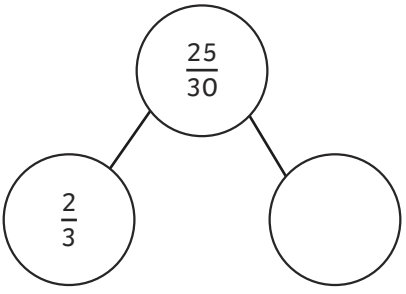




- 1) Complete these part-whole models. Show your working out using common denominators. Simplify fractions where possible.

- 2) Here is a pile of cat treats.



		
Milo ate $\frac{3}{8}$ of the cat treats.	Bella ate $\frac{5}{12}$ of the cat treats.	Oscar ate $\frac{1}{16}$ of the cat treats.

What fraction of the treats are left for Meeko? _____

1) Hifi has arranged his cat treats into fraction calculations.



$$\frac{1}{8} + \frac{1}{9} = \frac{17}{72}$$

$$\frac{4}{9} - \frac{5}{12} = \frac{1}{36}$$

$$\frac{1}{9} + \frac{1}{10} = \frac{2}{90}$$

$$\frac{2}{9} - \frac{1}{7} = \frac{1}{63}$$

$$\frac{3}{5} + \frac{3}{8} = \frac{6}{40}$$

$$\frac{11}{12} - \frac{4}{7} = \frac{7}{84}$$

$$\frac{4}{7} - \frac{1}{2} = \frac{1}{14}$$

$$\frac{2}{5} + \frac{5}{9} = \frac{43}{45}$$

$$\frac{4}{5} - \frac{1}{7} = \frac{23}{35}$$

Prove if each calculation is true or false. Show your reasoning.

2)



I think the shaded fraction of box C is five eighths.

a) one quarter

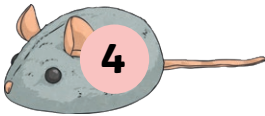
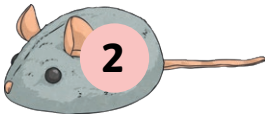
b) three eighths

c) ?

d) $\frac{1}{16}$

Do you agree with Mildred the cat? Explain your reasoning.

1)



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

The cats have completed this calculation in different ways using only the digits above.

Are their statements correct? Prove it.



There are seven fraction calculations that have an answer with a denominator of 12.

a)



There are six fraction calculations that have an answer with a numerator of 7.

b)



The biggest denominator number you can have in the answer is 84.

c)
