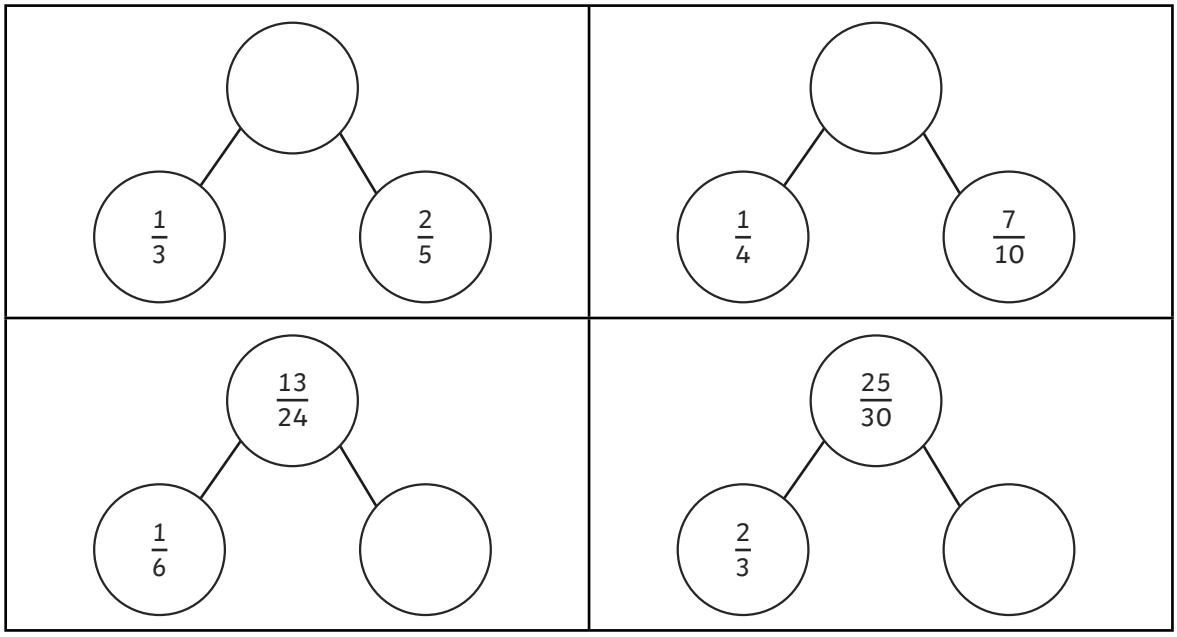
1) Complete these part-whole models. Show your working out using common denominators. Simplify fractions where possible.



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

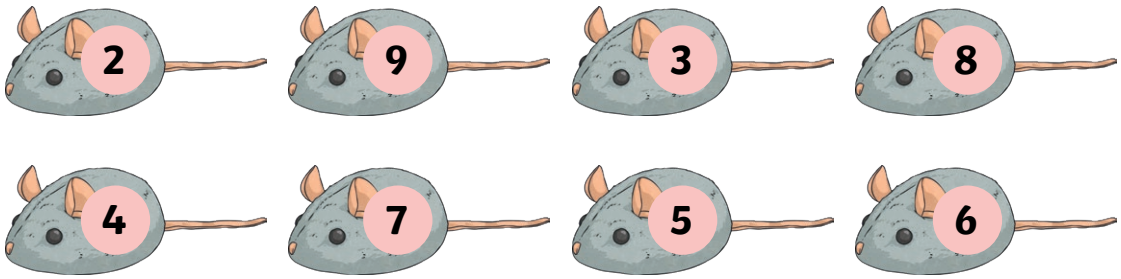
b) three eighths

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) _____

_____