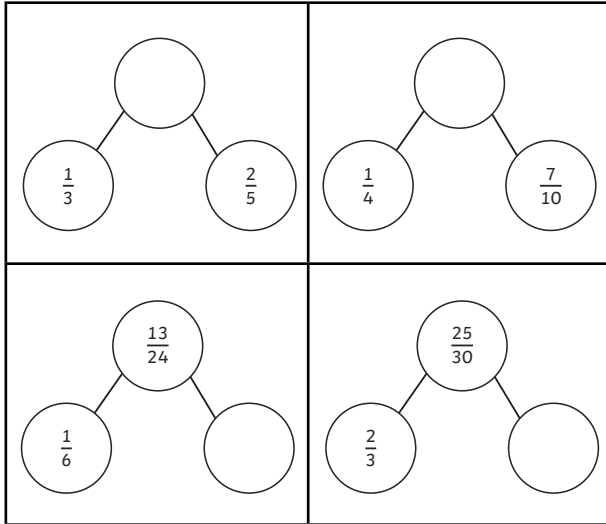


- 1) Complete these part-whole models. Show your working out using common denominators. Simplify fractions where possible.



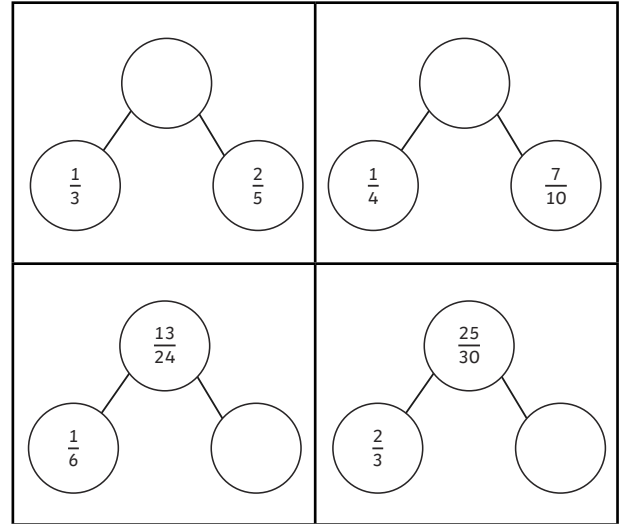
- 2) Here is a pile of cat treats.



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?

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



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

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

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

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

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

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

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

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

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

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.

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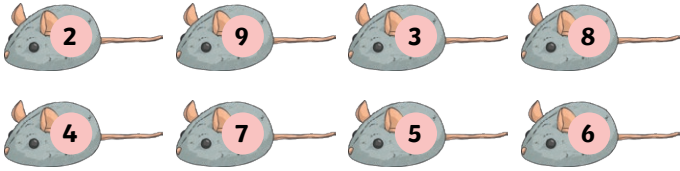
	?	
--	---	--

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--	----------------

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.

a)



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

b)



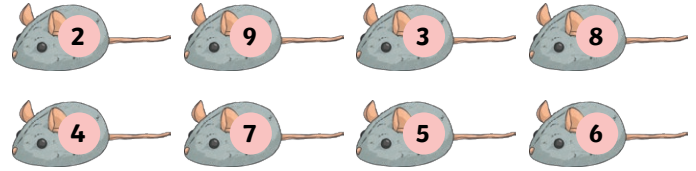
There are six fraction calculations that have an answer with a numerator of 7.

c)



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

1)



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