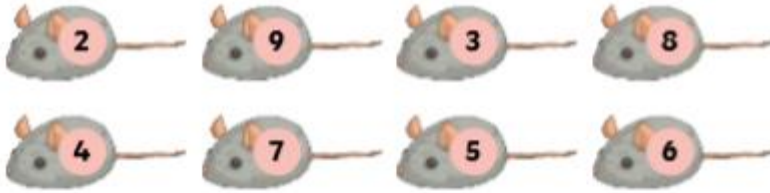**1)**

Mice with numbers: 2, 9, 3, 8, 4, 7, 5, 6

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

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) _____

_____

1) Using fractions with different denominators, can you write an addition calculation that totals $1\frac{1}{2}$? Find five different possibilities.

$$\frac{\square}{\square} + \frac{\square}{\square} + \frac{\square}{\square} = 1\frac{1}{2} \qquad \frac{\square}{\square} + \frac{\square}{\square} + \frac{\square}{\square} = 1\frac{1}{2} \qquad \frac{\square}{\square} + \frac{\square}{\square} + \frac{\square}{\square} = 1\frac{1}{2}$$

$$\frac{\square}{\square} + \frac{\square}{\square} + \frac{\square}{\square} = 1\frac{1}{2} \qquad \frac{\square}{\square} + \frac{\square}{\square} + \frac{\square}{\square} = 1\frac{1}{2}$$

2) Complete this subtraction calculation using fractions with different denominators. Find two different possibilities.

$$\frac{3}{4} = \frac{\square}{6} - \frac{4}{\square} \qquad\qquad \frac{3}{4} = \frac{\square}{6} - \frac{4}{\square}$$

3) Can you make a similar challenge for a partner by giving them a target answer?