1) The school cook is working out how many potatoes she needs to buy to cook dinner for the school. She estimates that each class will eat 3 4/7 kg of potatoes. She buys 21 3/7 kg of potatoes altogether. How many classes is the school cook buying the potatoes for?

2) Using each of the digits 1 to 6 only once investigate completing these multiplication statements.

a) ? × ? $\frac{?}{?}$ = greatest possible answer. (Don't make an improper fraction within a mixed number.)

b) ? × ? $\frac{?}{?}$ = mixed number answer with 1/2 as the fraction

1) Freya is given a set of digit cards from 1 to 6.

She uses four of the cards to make two fractions, e.g. $\frac{1}{2}$ and $\frac{3}{4}$.

She multiplies these fractions together to make $\frac{3}{8}$.

a) What is the greatest possible answer that Freya could make by using the digit cards 1 to 6 in this way?

(She can only use each digit once.)

b) What is the smallest possible fraction she can make?

c) Freya makes a fraction with a denominator > 6. Can you find more than one way?

2) Using a different number (any number) for each part of the fraction, can you find five different ways to complete this calculation?

$$\frac{?}{?} \times \frac{?}{?} = \frac{1}{2}$$