

Here are two calculation cards

$$A = 396 \div 11$$

$$B = 832 \div 11$$

Sana



I know the answers will both be whole numbers because 396 and 832 have 11 as a factor.

I know only one calculation will have a whole number because I did written calculation.

Eve



Which child is correct?

It is not clear just from looking at the question if there will be a remainder or not, so I tried it.

$$\begin{array}{r} 036 \\ 11 \overline{)396} \\ \underline{-33} \\ 066 \end{array}$$

no remainder here.

$$\begin{array}{r} 075 \text{ r } 7 \\ 11 \overline{)832} \\ \underline{-77} \\ 052 \\ \underline{-55} \\ 07 \end{array}$$

a remainder.

Eve is correct as one of the calculations does have a remainder.

Class 6 are completing this calculation

$$3,636 \div 12$$

Violet



I know there will be a remainder before I start.

Is she correct?

Explain how you know.

$$3636 \div 12 = 303$$

I know $36 \div 12 = 3$.

So I know 3636 will not have a remainder and Violet is correct.

I can double check:

$$\begin{array}{r} 0303 \\ 12 \overline{)3636} \\ \underline{-36} \\ 0036 \\ \underline{-36} \\ 0000 \end{array}$$