

Answers to Practice Exercises for Chapter 7 – The Four Rules for Larger Numbers

Set A - Question 16

Long Division Layout

$$\begin{array}{r} \\ 502 \overline{) 119476} \\ \underline{1004} \\ 1907 \\ \underline{1506} \\ 4016 \\ \underline{4016} \\ - \end{array}$$

Short Division Layout

(Not recommended because it is so easy to make a mistake working out the remainders in your head.)

$$502 \overline{) 119476} \begin{array}{l} \\ \\ \\ \end{array}$$

Working

In this case, it is fairly easy to spot which multiples of 502 are required because it is so close to 500. You only need to work out 2, 3 and 8 times and you can possibly do this in your head. If not:

$$\begin{array}{r} 502 \\ \\ \hline 1004 \end{array}$$

$$\begin{array}{r} 502 \\ \\ \hline 1506 \end{array}$$

$$\begin{array}{r} 502 \\ \\ \hline 4016 \end{array}$$