

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

### Set A - Question 6

Lay it out like this.

$$\begin{array}{r} 305 \\ 128 \\ \hline \hline \end{array}$$

#### Decomposition Method

First subtract the units column.  $5 - 8$  won't give a positive answer, there's nothing in the tens, so take one of the 3 hundreds so that there are 2 left in the hundreds and giving you 10 tens.

$$\begin{array}{r} 3^2 10 5 \\ 128 \\ \hline \hline \end{array}$$

Take one of those 10 tens, leaving 9 and the 5 units becomes 15 units.

Then,  $15 - 8 = 7$ .

$$\begin{array}{r} 3^2 \overset{10}{9} 15 \\ 128 \\ \hline 7 \end{array}$$

Now subtract the tens column,  $9 - 2 = 7$ .

Finally, subtract the hundreds,  $2 - 1 = 1$ .

$$\begin{array}{r} 3^2 \overset{10}{9} 15 \\ 128 \\ \hline 177 \end{array}$$

#### Equal Additions Method

First subtract the units column.  $5 - 8$  won't give a positive answer, so add 1 to the 2 in the tens making 3, and add 10 to the 5 units making 15.

Then,  $15 - 8 = 7$ .

$$\begin{array}{r} 30 \overset{15}{5} \\ 1 \overset{3}{2} 8 \\ \hline 7 \end{array}$$

Now subtract the tens column.  $0 - 3 = 2$  also won't give a positive answer, so add 1 to the 1 in the hundreds making 2, and add 10 to the 0 in the tens making 10.

Then,  $10 - 3 = 7$

$$\begin{array}{r} 3 \overset{10}{1} \overset{15}{5} \\ \overset{2}{1} \overset{3}{2} 8 \\ \hline 77 \end{array}$$

Finally, subtract the hundreds,  $3 - 2 = 1$

$$\begin{array}{r} 3 \overset{10}{1} \overset{15}{5} \\ \overset{2}{1} \overset{3}{2} 8 \\ \hline 177 \end{array}$$