

Multiplication and Division Procedures - ANSWERS

1 a.

$$\begin{array}{r}
 234 \\
 \underline{89} \\
 20^2 0^3 6 \\
 18^2 7^3 20 \\
 \underline{20826} \\
 1 \quad 1
 \end{array}$$

b.

$$\begin{array}{r}
 2340 \\
 \underline{890} \\
 21^3 0^3 600 \\
 18^2 7^3 2000 \\
 \underline{2082600} \\
 1
 \end{array}$$

c.

$$\begin{array}{r}
 203400 \\
 \underline{809} \\
 1830^3 600 \\
 1627^3 20000 \\
 \underline{164550600} \\
 1
 \end{array}$$

c.

$$\begin{array}{r}
 295 \\
 45 \overline{) 13275} \\
 \underline{90} \\
 427 \\
 \underline{405} \\
 225 \\
 \underline{225} \\
 -
 \end{array}$$

$$\begin{array}{r}
 45 \\
 \underline{3} \\
 13^1 5 \\
 45 \\
 \underline{9} \\
 40^4 5
 \end{array}$$

$$\begin{array}{r}
 45 \\
 \underline{5} \\
 22^2 5
 \end{array}$$

This could be done by factorising 45 into 9×5 and dividing 13 275 by 5 and then by 9 (or the other way round). Like this:

$$\begin{array}{r}
 295 \\
 9 \overline{) 2^2 6^8 5^4 5} \\
 5 \overline{) 1^1 3^3 2^2 7^2 5}
 \end{array}$$

2 a.

$$\begin{array}{r}
 372 \\
 8 \overline{) 2^2 9^5 7^1 6}
 \end{array}$$

b.

$$\begin{array}{r}
 846 \\
 19 \overline{) 1^6 5^1 0^7 4} \\
 \underline{152} \\
 87 \\
 \underline{76} \\
 114 \\
 \underline{114} \\
 -
 \end{array}$$

$$\begin{array}{r}
 19 \\
 \underline{8} \\
 15^7 2 \\
 19 \\
 \underline{9} \\
 17^8 1 \\
 -
 \end{array}$$

$$\begin{array}{r}
 19 \\
 \underline{4} \\
 7^3 6
 \end{array}$$

$$\begin{array}{r}
 19 \\
 \underline{6} \\
 11^5 4
 \end{array}$$