

TARGET To use a formal written method for long multiplication.

Examples

$$\begin{array}{r} \begin{array}{cccc} & 5 & 4 & 5 \\ 1 & 7 & 5 & 8 \\ \times & & 2 & 7 \\ \hline 1 & 2 & 3 & 0 & 6 \\ 3 & 5 & 1 & 1 & 6 & 0 \\ \hline 4 & 7 & 4 & 6 & 6 \end{array} \end{array} \quad \begin{array}{l} (1758 \times 7) \\ (1758 \times 20) \end{array}$$

$$\begin{array}{r} \begin{array}{cccc} & 2 & 5 & 1 \\ 4 & 3 & 9 & 2 \\ \times & & 3 & 6 \\ \hline 2 & 6 & 3 & 5 & 2 \\ 1 & 3 & 1 & 7 & 6 & 0 \\ \hline 1 & 5 & 8 & 1 & 1 & 2 \\ & 1 & & 1 & & \end{array} \end{array}$$

A

Copy and complete.

$$\begin{array}{r} \textcircled{1} \quad \begin{array}{r} 68 \\ \times 13 \\ \hline \end{array} \end{array} \quad \begin{array}{l} (68 \times 3) \\ (68 \times 10) \end{array}$$

$$\begin{array}{r} \textcircled{2} \quad \begin{array}{r} 492 \\ \times 18 \\ \hline \end{array} \end{array} \quad \begin{array}{l} (492 \times 8) \\ (492 \times 10) \end{array}$$

$$\begin{array}{r} \textcircled{3} \quad \begin{array}{r} 36 \\ \times 24 \\ \hline \end{array} \end{array} \quad \begin{array}{l} (36 \times 4) \\ (36 \times 20) \end{array}$$

$$\begin{array}{r} \textcircled{4} \quad \begin{array}{r} 267 \\ \times 35 \\ \hline \end{array} \end{array} \quad \begin{array}{l} (267 \times 5) \\ (267 \times 30) \end{array}$$

Work out

- | | |
|--------------------------------------|--|
| $\textcircled{5} \quad 63 \times 42$ | $\textcircled{9} \quad 174 \times 34$ |
| $\textcircled{6} \quad 57 \times 26$ | $\textcircled{10} \quad 219 \times 28$ |
| $\textcircled{7} \quad 49 \times 19$ | $\textcircled{11} \quad 438 \times 17$ |
| $\textcircled{8} \quad 85 \times 23$ | $\textcircled{12} \quad 365 \times 45$ |

B

Copy and complete.

$$\begin{array}{r} \textcircled{1} \quad \begin{array}{r} 1247 \\ \times 26 \\ \hline \end{array} \end{array} \quad \begin{array}{l} (1247 \times 6) \\ (1247 \times 20) \end{array}$$

$$\begin{array}{r} \textcircled{2} \quad \begin{array}{r} 2538 \\ \times 14 \\ \hline \end{array} \end{array} \quad \begin{array}{l} (2538 \times 4) \\ (2538 \times 10) \end{array}$$

$$\begin{array}{r} \textcircled{3} \quad \begin{array}{r} 1673 \\ \times 38 \\ \hline \end{array} \end{array} \quad \begin{array}{l} (1673 \times 8) \\ (1673 \times 30) \end{array}$$

$$\begin{array}{r} \textcircled{4} \quad \begin{array}{r} 3496 \\ \times 25 \\ \hline \end{array} \end{array} \quad \begin{array}{l} (3496 \times 5) \\ (3496 \times 20) \end{array}$$

Work out

- | | |
|--|---|
| $\textcircled{5} \quad 5728 \times 16$ | $\textcircled{9} \quad 6257 \times 43$ |
| $\textcircled{6} \quad 4359 \times 37$ | $\textcircled{10} \quad 1985 \times 24$ |
| $\textcircled{7} \quad 2584 \times 29$ | $\textcircled{11} \quad 4874 \times 39$ |
| $\textcircled{8} \quad 3046 \times 35$ | $\textcircled{12} \quad 7169 \times 48$ |

C

Work out

- $\textcircled{1} \quad 24\,135 \times 28$
- $\textcircled{2} \quad 57\,248 \times 19$
- $\textcircled{3} \quad 42\,186 \times 34$
- $\textcircled{4} \quad 16\,259 \times 45$
- $\textcircled{5} \quad 35\,367 \times 26$
- $\textcircled{6} \quad 49\,526 \times 37$
- $\textcircled{7} \quad 21\,687 \times 85$
- $\textcircled{8} \quad 52\,958 \times 64$
- $\textcircled{9} \quad 249 \times 183$
- $\textcircled{10} \quad 376 \times 256$
- $\textcircled{11} \quad 458 \times 149$
- $\textcircled{12} \quad 864 \times 572$
- $\textcircled{13} \quad 327 \times 265$
- $\textcircled{14} \quad 483 \times 174$
- $\textcircled{15} \quad 739 \times 328$
- $\textcircled{16} \quad 562 \times 437$
- $\textcircled{17} \quad$ One can weighs 387 g. There are 36 cans in a box. What is the total weight of 25 boxes in kilograms?