

Multiplication strategies / methods

Method 1: Partitioning

$$\begin{array}{c}
 123 \times 4 = (100 \times 4) + (20 \times 4) + (3 \times 4) = \\
 \begin{array}{ccc}
 100 & 20 & 3 \\
 \swarrow & \downarrow & \searrow \\
 400 & + & 80 & + & 12 & = & 492
 \end{array}
 \end{array}$$

Multiply using partitioning strategy in your notebook.

- 1) $136 \times 2 =$
- 2) $241 \times 3 =$
- 3) $306 \times 4 =$
- 4) $204 \times 3 =$
- 5) $105 \times 5 =$

Method 2: Grid method

$$123 \times 4 = 492$$

$\times$	100	20	3
4	400	80	12

 $= 492$

Multiply using grid strategy in your notebook.

- 1) $136 \times 2 =$
- 2) $241 \times 3 =$
- 3) $306 \times 4 =$
- 4) $204 \times 3 =$
- 5) $105 \times 5 =$

Method 3: Compact method

$$\begin{array}{r}
 123 = 100 + 20 + 3 \\
 \times 4 \\
 \hline
 400 \quad 100 \times 4 \\
 80 \quad 20 \times 4 \\
 12 \quad 3 \times 4 \\
 \hline
 492
 \end{array}$$

Multiply using compact strategy in your notebook.

- 1) $136 \times 2 =$
- 2) $241 \times 3 =$
- 3) $306 \times 4 =$
- 4) $204 \times 3 =$
- 5) $105 \times 5 =$