

L.O. Efficient column multiplication Square Hexagon Multiply any 2d by up to 4d e.g. $12 \times 317 =$ or $12 \times 5317 =$ Remember to:	Wednesday What I think	20/01/2021 What my teacher thinks
Write the larger number above the smaller number.	☐	☐
Multiply the upper unit by the lower unit and record.	☐	☐
Record any carried exchanged tens.	☐	☐
Multiply the upper ten by the lower unit and record.	☐	☐
Record any carried exchanged hundreds.	☐	☐
Multiply the upper hundred by the lower unit and record.	☐	☐
Record any carried exchanged thousands.	☐	☐
Multiply the upper thousand by the lower unit and record.	☐	☐
Record any carried exchanged tens of thousands.	☐	☐
Multiply the upper unit by the lower ten and record.	☐	☐
Record any carried exchanged hundreds.	☐	☐
Multiply the upper ten by the lower ten and record.	☐	☐
Record any carried exchanged thousands.	☐	☐
Multiply the upper hundred by the lower ten and record.	☐	☐
Record any carried exchanged tens of thousands	☐	☐
Multiply the upper thousand by the lower ten and record.	☐	☐
Record any carried exchanged hundreds of thousands.	☐	☐
Add the recorded totals to give the answer.	☐	☐
Do me first: $137 + 9 =$		

Before you move on, have a practice with these using an efficient method;

- 1) $4 \times 37 =$ 2) $17 \times 22 =$ 3) $16 \times 432 =$ 4) $3 \times 2431 =$

Now have a go at these, using the method shown. The first one has been done for you;

- 5) $24 \times 2246 =$ 6) $12 \times 3427 =$ 7) $32 \times 4348 =$

Handwritten calculation for 24×2246 :

$$\begin{array}{r}
 2246 \\
 \times 24 \\
 \hline
 8984 \quad (4 \times 2246) \\
 44920 \quad (20 \times 2246) \\
 \hline
 53904
 \end{array}$$

- 8) $17 \times 2382 =$ 9) $42 \times 4431 =$ 10) $37 \times 2313 =$

L.O. Efficient column multiplication Pentagon Quadrilateral Multiply any 2d by up to 4d e.g. $12 \times 317 =$ or $12 \times 5317 =$ Remember to:	Wednesday What I think	20/01/2021 What my teacher thinks
Write the larger number above the smaller number.	☐	☐
Multiply the upper unit by the lower unit and record.	☐	☐
Record any carried exchanged tens.	☐	☐
Multiply the upper ten by the lower unit and record.	☐	☐
Record any carried exchanged hundreds.	☐	☐
Multiply the upper hundred by the lower unit and record.	☐	☐
Record any carried exchanged thousands.	☐	☐
Multiply the upper thousand by the lower unit and record.	☐	☐
Record any carried exchanged tens of thousands.	☐	☐
Multiply the upper unit by the lower ten and record.	☐	☐
Record any carried exchanged hundreds.	☐	☐
Multiply the upper ten by the lower ten and record.	☐	☐
Record any carried exchanged thousands.	☐	☐
Multiply the upper hundred by the lower ten and record.	☐	☐
Record any carried exchanged tens of thousands	☐	☐
Multiply the upper thousand by the lower ten and record.	☐	☐
Record any carried exchanged hundreds of thousands.	☐	☐
Add the recorded totals to give the answer.	☐	☐
Do me first: $578 + 77 =$		

Before you move on, have a practice with these using an efficient method;

- 1) $4 \times 37 =$ 2) $17 \times 22 =$ 3) $16 \times 432 =$ 4) $3 \times 2431 =$

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 \times 24 \\
 \hline
 8984 \quad (4 \times 2246) \\
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 \end{array}$$

- 8) $17 \times 2382 =$ 9) $42 \times 4431 =$ 10) $37 \times 2313 =$

- 11) $42 \times 4323 =$ 12) $63 \times 3366 =$ 13) $87 \times 9876 =$

L.O. Efficient column multiplication Multiply any 2d by up to 4d e.g. $12 \times 317 =$ or $12 \times 5317 =$ Remember to:	Triangle Wednesday What I think	20/01/2021 What my teacher thinks
Write the larger number above the smaller number.	☐	☐
Multiply the upper unit by the lower unit and record.	☐	☐
Record any carried exchanged tens.	☐	☐
Multiply the upper ten by the lower unit and record.	☐	☐
Record any carried exchanged hundreds.	☐	☐
Multiply the upper hundred by the lower unit and record.	☐	☐
Record any carried exchanged thousands.	☐	☐
Multiply the upper thousand by the lower unit and record.	☐	☐
Record any carried exchanged tens of thousands.	☐	☐
Multiply the upper unit by the lower ten and record.	☐	☐
Record any carried exchanged hundreds.	☐	☐
Multiply the upper ten by the lower ten and record.	☐	☐
Record any carried exchanged thousands.	☐	☐
Multiply the upper hundred by the lower ten and record.	☐	☐
Record any carried exchanged tens of thousands	☐	☐
Multiply the upper thousand by the lower ten and record.	☐	☐
Record any carried exchanged hundreds of thousands.	☐	☐
Add the recorded totals to give the answer.	☐	☐
Do me first: $6978 - 5489 =$		

Before you move on, have a practice with these using an efficient method;

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Now have a go at these, using the method shown. The first one has been done for you;

- 5) $24 \times 2246 =$ 6) $12 \times 3427 =$ 7) $32 \times 4348 =$

$$\begin{array}{r}
 2246 \\
 \times 24 \\
 \hline
 8984 \quad (4 \times 2246) \\
 44920 \quad (20 \times 2246) \\
 \hline
 53904
 \end{array}$$

- 8) $17 \times 2382 =$ 9) $42 \times 4431 =$ 10) $37 \times 2313 =$

- 11) $42 \times 4323 =$ 12) $63 \times 3366 =$ 13) $87 \times 9876 =$

- 14) $47 \times 7685 =$ 15) $79 \times 9879 =$ 16) $94 \times 8989 =$