

Short multiplication (multiplying by 3)

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This is the standard written method known as 'short multiplication'. It leads on from the earlier worksheets on 'Moving towards a standard method'. All the questions involve multiplying by 3.

The stages are as follows:

Step 1: **write the sum out correctly**

The question may be put in a different layout eg $46 \times 3 =$

Make sure it is laid out with the units under each other as shown.

$$\begin{array}{r} \text{t} \quad \text{u} \\ 46 \\ \times 3 \\ \hline \end{array}$$

Step 2: **multiply the units**

6 (units) \times 3 is 18 or 1 ten and 8 units.

Put the 8 in the answer in the units.

Place the 1 (ten) in the tens column, but under the answer line.

$$\begin{array}{r} \text{t} \quad \text{u} \\ 46 \\ \times 3 \\ \hline 8 \\ \hline 1 \end{array}$$

Step 3: **multiply the tens**

4 (tens) \times 3 is 12 (tens).

Add the 1 (ten) to make 13 (tens) or 1 hundreds and 3 tens.

Place the 3 in the tens column and the 1 in the hundreds column.

Easy! All done!!

$$\begin{array}{r} \text{t} \quad \text{u} \\ 46 \\ \times 3 \\ \hline 138 \\ \hline 1 \end{array}$$

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Try these multiplication by 3 questions using the 'short' method, but make sure you show numbers that have been 'carried forward'.



1. h t u

$$\begin{array}{r} 34 \\ \times 3 \\ \hline \\ \hline \end{array}$$

2. h t u

$$\begin{array}{r} 57 \\ \times 3 \\ \hline \\ \hline \end{array}$$

3. h t u

$$\begin{array}{r} 68 \\ \times 3 \\ \hline \\ \hline \end{array}$$

4. h t u

$$\begin{array}{r} 72 \\ \times 3 \\ \hline \\ \hline \end{array}$$

5. h t u

$$\begin{array}{r} 80 \\ \times 3 \\ \hline \\ \hline \end{array}$$

6. h t u

$$\begin{array}{r} 95 \\ \times 3 \\ \hline \\ \hline \end{array}$$

7. h t u

$$\begin{array}{r} 29 \\ \times 3 \\ \hline \\ \hline \end{array}$$

8. h t u

$$\begin{array}{r} 60 \\ \times 3 \\ \hline \\ \hline \end{array}$$

9. h t u

$$\begin{array}{r} 46 \\ \times 3 \\ \hline \\ \hline \end{array}$$

10. h t u

$$\begin{array}{r} 88 \\ \times 3 \\ \hline \\ \hline \end{array}$$

11. h t u

$$\begin{array}{r} 77 \\ \times 3 \\ \hline \\ \hline \end{array}$$

12. h t u

$$\begin{array}{r} 89 \\ \times 3 \\ \hline \\ \hline \end{array}$$

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Answers

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|---------|---------|---------|
| 1. 102 | 2. 171 | 3. 204 |
| 4. 216 | 5. 240 | 6. 285 |
| 7. 87 | 8. 180 | 9. 138 |
| 10. 264 | 11. 231 | 12. 267 |