

Short multiplication (multiplying by 6)

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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 6.

The stages are as follows:

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

The question may be put in a different layout eg $43 \times 6 =$

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

$$\begin{array}{r} \text{t} \quad \text{u} \\ 43 \\ \times 6 \\ \hline \end{array}$$

Step 2: **multiply the units**

3 (units) \times 6 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.

$$\begin{array}{r} \text{t} \quad \text{u} \\ 43 \\ \times 6 \\ \hline 8 \\ \hline 1 \end{array}$$

Step 3: **multiply the tens**

4 (tens) \times 6 is 24 (tens).

Add the 1 (ten) to make 25 (tens) or 2 hundreds and 5 tens.

Place the 5 in the tens column and the 2 in the hundreds column.

Easy! All done!!

$$\begin{array}{r} \text{t} \quad \text{u} \\ 43 \\ \times 6 \\ \hline 258 \\ \hline 1 \end{array}$$

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Try these multiplication by 6 questions using the 'short' method, but make sure you show numbers that have been 'carried forward'.



1. h t u

$$\begin{array}{r} 27 \\ \times 6 \\ \hline \\ \hline \end{array}$$

2. h t u

$$\begin{array}{r} 48 \\ \times 6 \\ \hline \\ \hline \end{array}$$

3. h t u

$$\begin{array}{r} 59 \\ \times 6 \\ \hline \\ \hline \end{array}$$

4. h t u

$$\begin{array}{r} 63 \\ \times 6 \\ \hline \\ \hline \end{array}$$

5. h t u

$$\begin{array}{r} 70 \\ \times 6 \\ \hline \\ \hline \end{array}$$

6. h t u

$$\begin{array}{r} 86 \\ \times 6 \\ \hline \\ \hline \end{array}$$

7. h t u

$$\begin{array}{r} 94 \\ \times 6 \\ \hline \\ \hline \end{array}$$

8. h t u

$$\begin{array}{r} 29 \\ \times 6 \\ \hline \\ \hline \end{array}$$

9. h t u

$$\begin{array}{r} 45 \\ \times 6 \\ \hline \\ \hline \end{array}$$

10. h t u

$$\begin{array}{r} 53 \\ \times 6 \\ \hline \\ \hline \end{array}$$

11. h t u

$$\begin{array}{r} 92 \\ \times 6 \\ \hline \\ \hline \end{array}$$

12. h t u

$$\begin{array}{r} 99 \\ \times 6 \\ \hline \\ \hline \end{array}$$

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Answers

Page 1

1. 162

2. 288

3. 354

4. 378

5. 420

6. 516

7. 564

8. 174

9. 270

10. 318

11. 552

12. 594