



PARENT PROMPT

MULTIPLICATION (1)

Multiplication Tables

FIRST LEVEL

Children are introduced to multiplication tables in the First Level. They are first introduced to the 2,4,8 times tables, followed by the 10, 5 times tables, then the 3, 6 and 9 times tables.

The children develop the vocabulary used in multiplication, for example :

“multiplied by” , “times” and “lots of” .

They should learn and be able to recall table facts quickly and therefore frequent practice is required. Once children are familiar with the table facts they are introduced to a written form, and learn to complete word problems based on multiplication.

Examples of written calculations

No carrying

$$\begin{array}{r} \text{T U} \\ 2 \ 1 \\ \times 4 \\ \hline 4 \end{array}$$

Start at the units column
4 times 1 unit is 4 units
Record this 4 in the units column

$$\begin{array}{r} \text{T U} \\ 2 \ 1 \\ \times 4 \\ \hline 8 \ 4 \end{array}$$

Multiply the tens. 4 times 2 tens is 8 tens
Record this 8 in the tens column
The answer is 8 tens and 4 units or 84

With Carrying

$$\begin{array}{r} \text{T U} \\ 2 \ 4 \\ \times 3 \\ \hline 12 \end{array}$$

Start at the units column
3 times 4 units is 12 units
Write 2 in the units column and carry 1 ten

$$\begin{array}{r} \text{T U} \\ 2 \ 4 \\ \times 3 \\ \hline 7 \ 2 \\ 1 \end{array}$$

Multiply the tens. 3 times 2 tens is 6 tens
6 tens add 1 ten is 7 tens
Record this 7 in the tens column
The answer is 7 tens and 2 units or 72



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MULTIPLICATION (2)

Multiplication Tables

SECOND LEVEL

Example using hundreds, tens and units

$$\begin{array}{r}
 \text{H T U} \\
 1 \ 4 \ 3 \\
 \times \quad 6 \\
 \hline
 \quad 18 \\
 \hline
 \quad 1
 \end{array}$$

Start at the units, 6 times 3 units is 18 units
Write 8 in the units column and carry 1 ten.

$$\begin{array}{r}
 \text{H T U} \\
 1 \ 4 \ 3 \\
 \times \quad 6 \\
 \hline
 \quad 18 \\
 2 \ 5 \ 8 \\
 \hline
 \quad 1
 \end{array}$$

Multiply the tens. 6 times 4 tens is 24 tens. Add the ten carried makes 25 tens.
Write 5 in the tens column and carry the 2 hundreds
Write 8 in the units column and carry 1 ten.

$$\begin{array}{r}
 \text{H T U} \\
 1 \ 4 \ 3 \\
 \times \quad 6 \\
 \hline
 \quad 18 \\
 2 \ 5 \ 8 \\
 8 \ 5 \ 8 \\
 \hline
 \quad 1
 \end{array}$$

Multiply the hundreds. 6 times 1 hundred is 6 hundreds.
Add on 2 hundreds carried. Write 8 in the hundreds column.
The answer is 8 hundreds, 5 tens and 8 units, or 858

Example using decimals

The process remains the same even if we are using decimals

$$\begin{array}{r}
 \text{T U} \cdot \text{Tth Hths} \\
 2 \cdot 5 \ 4 \\
 \times \quad 7 \\
 \hline
 \quad 28 \\
 \hline
 \quad 2
 \end{array}$$

Start at the hundredths column
7 times 4 hundredths is 28 hundredths
Put 8 in the hundredths column and carry 2

$$\begin{array}{r}
 \text{T U} \cdot \text{Tth Hths} \\
 2 \cdot 5 \ 4 \\
 \times \quad 7 \\
 \hline
 \quad 28 \\
 3 \ 7 \ 8 \\
 \hline
 \quad 2
 \end{array}$$

7 times 5 tenths is 35 tenths. Add on 2 carried.
Write 7 in the tenths column and carry 3 units.

$$\begin{array}{r}
 \text{T U} \cdot \text{Tth Hths} \\
 2 \cdot 5 \ 4 \\
 \times \quad 7 \\
 \hline
 \quad 28 \\
 1 \ 7 \cdot 7 \ 8 \\
 \hline
 \quad 2
 \end{array}$$

7 times 2 units is 14 units. Add on the 3 units carried.
Write 7 in the units column and 1 in the tens column. The answer is 1 ten, 7 units, 7 tenths and 8 hundredths or 17.78



PARENT PROMPT

MULTIPLICATION (3)

Multiplying by 10, 100 and 1000

FIRST LEVEL

In the first level children are expected to be able to multiply whole numbers mentally by 10 and 100.

If your child is learning about: Multiplying by 10

To multiply whole numbers by 10 we move each digit one place to the left. Put a zero in the units place.

Example 294 x 10

Th H T U
 2 9 4 x 10

= 2 9 4 0

If your child is learning about: Multiplying by 100

To multiply whole numbers by 100 we move each digit two places to the left. Put a zero in the units place **and** in the tens place.

Example 294 x 100

Tth Th H T U
 2 9 4 x 100

= 2 9 4 0 0

SECOND LEVEL

If your child is learning about: Multiplying by 1000

To multiply whole numbers by 1000 we move each digit three places to the left. Put a zero in the units place **and** in the tens place **and** in the hundreds place.

Example 294 x 1000

Hth Tth Th H T U
 2 9 4 x 1000

= 2 9 4 0 0 0



PARENT PROMPT

MULTIPLICATION (4)

Multiplying Decimals by 10, 100 and 1000

SECOND LEVEL

This process remains the same when we are using decimals. The digits move to the left, but the decimal point never moves. Children may begin to notice that the tenths become units, units become tens and tens become hundreds when multiplying by 10. When multiplying by 100 or 1000, columns to the left of the decimal point must be filled with a zero. See examples below.

If your child is learning about: Multiplying by 10

To multiply by 10 we move each digit one place to the left.

Examples $29\cdot4 \times 10$

H	T	U	•	Tths
2	9	•	4	

= 2 9 4 • 0 (Tenths column requires a zero)

If your child is learning about: Multiplying by 100

To multiply by 100 we move each digit two places to the left.

Examples $29\cdot4 \times 100$

Th	H	T	U	•	Tths
	2	9	•	4	

= 2 9 4 0 • 0 (Tenths column, and units column require a zero)

If your child is learning about: Multiplying by 1000

To multiply whole numbers by 1000 we move each digit three places to the left.

Example $29\cdot4 \times 1000$

Tth	Th	H	T	U	•	Tths
		2	9	•	4	

= 2 9 4 0 0 • 0 (Tenths column, units column and tens column require a zero)