



Multiplication and Division B

Vocabulary for Multiplication	Vocabulary for Division
Multiply	Division
Times	Dividing, Divide, Divided by
Multiple, factor	Left, left over, remainder
Groups of	Grouping
Product	Sharing, share, share equally
Repeated addition	Group in, threes...tens...

Short Division	
$\begin{array}{r} 1 \\ 8 \overline{) 8,192} \end{array}$	<p>How many 8s in 8?</p> $8 \div 8 = 1$
$\begin{array}{r} 1,0 \\ 8 \overline{) 8,192} \end{array}$	<p>How many 8s in 1?</p> $1 \div 8 = 0 \text{ r}1$
$\begin{array}{r} 1,02 \\ 8 \overline{) 8,192} \end{array}$	<p>How many 8s in 19?</p> $19 \div 8 = 2 \text{ r}3$
$\begin{array}{r} 1,024 \\ 8 \overline{) 8,192} \end{array}$	<p>How many 8s in 32?</p> $32 \div 8 = 4$

Short Multiplication

	1	2	4
x			3
	3	7	2
			1

Multiply each digit by the 1 digit number, starting with the ones.

$4 \times 3 = 12$ so you place the 2 ones in the ones column and exchange the ten ones for one ten and place this underneath in the tens column.

Then multiply the tens digit, remembering to add the extra ten, then complete with the hundreds digit.

Long Multiplication

Written Multiplication

$\begin{array}{r} 5,853 \\ \times 23 \\ \hline 17,559 \\ \times 58,530 \\ \hline 134,619 \end{array}$	$\begin{array}{r} 5,853 \\ \times 23 \\ \hline 17,559 \\ \times 58,530 \\ \hline 134,619 \end{array}$
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