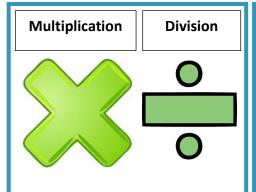


YEAR 5 - Multiplication (x) and Division (÷) Knowledge Organiser



Multiples; Common Multiples; Factors; Common Factors; Prime Numbers; Square Numbers; Cube Numbers; Multiply by 10, 100 and 1,000; Divide by 10, 100 and 1,000; Multiples of 10, 100 and 1,000.



Multiplication
lots of times
multiply groups of
product array
repeated addition
multiple of multiplied by

divide divided by
divided into share
share equally group
equal groups of split

Division

Multiplication and division are used in every day life. What if you had to work out the price of cinema tickets for a family? Or split a bill at a restaurant.





Key Vocabulary

Multiple – The number you get when you multiply one number by another. The multiples of 5 are 5, 10, 15, 20 etc.

Factors – A number that divides exactly into another number without a remainder. All even numbers have 2 as a factor.

Prime Numbers – A number that only has two factors - one and itself e.g. 7.

Square Numbers – The result when a number is multiplied by itself. 25 is a square number because $5 \times 5 = 25$.

SQUARE NUMBERS UP TO 12 X 12	CUBE NUMBERS UP TO
	10 × 10 × 10
1×1 or $1^2 = 1$ 2×2 or $2^2 = 4$	
$2 \times 2 \text{ or } 2 = 4$ $3 \times 3 \text{ or } 3^2 = 9$	$1 \times 1 \times 1 \text{ or } 1^3 = 1$
$4 \times 4 \text{ or } 4^2 = 16$	$2 \times 2 \times 2 \text{ or } 2^3 = 8$ $3 \times 3 \times 3 \text{ or } 3^3 = 27$
$5 \times 5 \text{ or } 5' = 25$	$4 \times 4 \times 4 \text{ or } 4^3 = 64$
$6 \times 6 \text{ or } 6^{2} = 36$ $7 \times 7 \text{ or } 7^{2} = 49$	$5 \times 5 \times 5 \text{ or } 5^3 = 125$
$8 \times 8 \text{ or } 8^2 = 64$	$6 \times 6 \times 6 \text{ or } 6^3 = 216$
$9 \times 9 \text{ or } 9^2 = 81$	$7 \times 7 \times 7 \text{ or } 7^3 = 343$
$10 \times 10 \text{ or } 10^2 = 100$ $11 \times 11 \text{ or } 11^2 = 121$	8 x 8 x 8 or 8 ³ = 512 9 x 9 x 9 or 9 ³ = 729
$11 \times 11 \text{ of } 11 = 121$ $12 \times 12 \text{ or } 12^2 = 144$	$10 \times 10 \times 10 \text{ or } 10^3 = 1,000$

