

KEY VOCAB

Integers are whole numbers that can be positive, negative or zero.

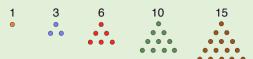
Multiples are just times tables. Multiples of 5 are 5, 10, 15, 20, 25 ...

Factors is a number that divides into another number exactly and without leaving a remainder. Factors of 10 are 1, 2, 5 and 10.

Index notation is a way of representing repeated multiplications of the same number. For example 5² x 6³ is index notation which also means 5 x 5 x 6 x 6 x 6.

Prime numbers will only divide by themselves and 1. Here are the first twelve prime numbers: 2, 3, 5, 7, 11, 13, 17, 19, 23, 29, 31, 37.

Can you see why the numbers below are called **triangular numbers**?



KEY KNOWLEDGE

Order of Operations

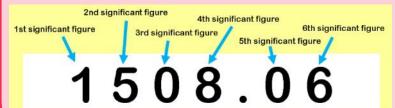
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- **NDICES**
- **IVISION**
- ULTIPLICATION
- **DDITION**
- UBTRACTION

Negative Numbers



Remember: You can only apply these rules when the signs are touching or when you are multiplying/dividing.

Significant Figures

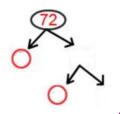


MATHS

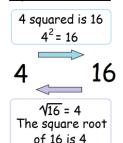
Y8 Number

Write 72 as a product of its primes

Hint: Try to find two factors where one of them is prime!



Square Numbers



2 cubed is 8 $2^3 = 8$

Cube Numbers

 $\sqrt[3]{8} = 2$ The cube root of 8 is 2

Lowest Common Multiple (LCM)

is the first number in the times tables of two or more numbers.

3's: 3, 6, 9, 12, 15, 18, **21** 24

7's: 7, 14, **21)** 28, 35

LCM of 3 and 7 = 21

Highest Common Factor (HCF) is the biggest factor that divides

into two or more numbers.

<u>30</u>	<u>12</u>
1 x 30	1 x 12
2 x 15	2 x
3 x 10	3 x 4
5 x	

HCF of 30 and 12 = 6

EXAMPLE SEADING

https://www.bbc.co.uk/bitesize/topics/z7kw2hv https://corbettmaths.com/contents/ https://www.pearsonactivelearn.com/app/library