|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Topic** |  | | | **Independent Learning and homework tasks** | |
| MyMaths | CorbettMaths.com |
| Simplifying ratio and dividing a quantity by a given ratio |  |  |  | Number, Ratio and Proportion, Ratio dividing 1 | Ratio: simplifying/express as fraction or %/sharing the total  Videos 269-270 |
| Finding and recognising factors, multiples and primes |  |  |  | Number, Powers and Roots | Number: factors (Video 216)/multiples (Video 220)/ prime numbers (Video 225) |
| Finding HCF and LCM |  |  |  | Number, Powers and Roots | Number: common multiples/LCM/common factors/HCF  Videos 218-219 |
| Drawing Prime Factor Trees |  |  |  | Number, Powers and Roots | Number: product of primes/product of primes (LCM/HCF)  Videos 224-225 |
| Venn Diagrams to illustrate prime factor decomposition |  |  |  |  | Additional Topics: Venn diagrams – Video 380 |
| Use and interpret algebraic notation |  |  |  | Algebra, Introduction to Algebra | Algebra: notation – Video 19 |
| Forming simple expressions |  |  |  | Algebra, Expressions and Formulae, Rules and Formulae | Algebra: expressions – forming – Video 16 |
| Simplifying expressions |  |  |  | Algebra, Algebraic Manipulation, simplifying 1 (and 2 extension) | Algebra: collecting like terms – Video 9 |
| Algebraic substitution |  |  |  | Algebra, Expressions and formulae, substitution | Algebra: substitution – Video 20 |
| Expanding single brackets |  |  |  | Algebra, Algebraic Manipulation, single brackets | Algebra: expanding brackets – Video 13 |

**Knowledge Organiser**

**Autumn 2 Half Term** **Year 7**

**Stretch and Challenge:**

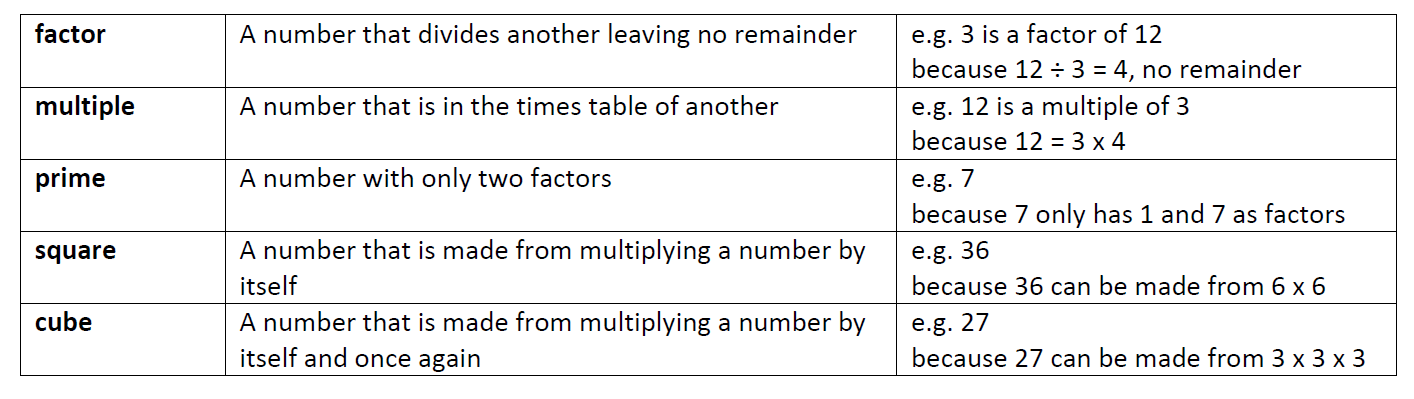
1. Practise UKMT Junior Maths Challenge Past papers on:

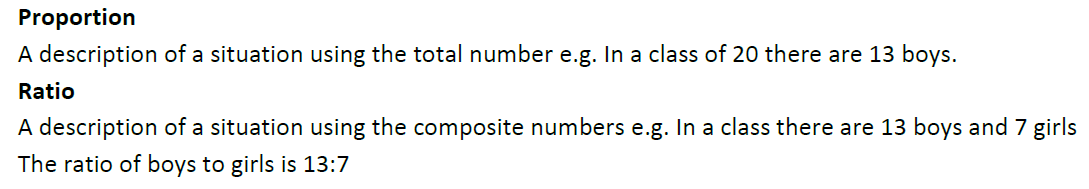
<https://www.ukmt.org.uk/competitions/solo/junior-mathematical-challenge/archive>

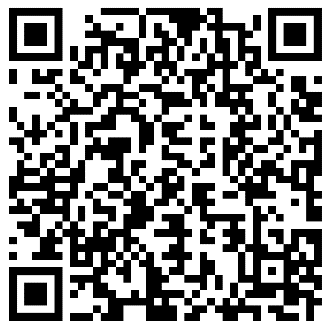
1. Set up an account on parallel.org.uk website, using your school email address and use teacher code “**ha52kh**”

**Michaelmas Term 2 Knowledge**

**Types of numbers:**





**Scan for full list of Year 7 topics**