

Summer Work for Students in Year 7 2019 – 2020

The work below is from the website <https://corbettmaths.com/contents/>

Students can either choose to practice topics that were affected by the disruption to normal schooling or to prepare in advance for those being taught in the first half term of the new academic year.

The number at the end of the topic in **bold** refers to the video and accompanying tasks. Answers are provided for all.

Fractional thinking

- Mixed numbers to fractions (and vice versa) **140**
- Add and subtract fractions / mixed numbers **132/133**
- Equivalent fractions **135**

Constructing and Measuring

- Understand letter and labelling conventions for lines and angles (e.g line AB or angle ABC) **(no specific video)**
- Measure and draw angles **28/31**
- Identify perpendicular and parallel lines **231/232**
- Types of triangle **327**
- Types of quadrilateral **2**
- Constructing triangles (SSS, SAS, ASA) **81-83**
- Pie charts **163/164**

Geometric reasoning

- Angle rules (point, straight line, vert opp etc.) **30/34/35/39**
- Sum of angles in a triangle and quadrilateral **33/37**
- Angle sum of polygons (H) **32**
- Parallel line angles (H) **25**

Sets and probability

- Identify and represent sets **379 (no worksheet available)**
- Interpret and create Venn diagrams **380**
- Understand / use intersection / union / complement (H) of sets **380**

Prime numbers and proof

- Multiples, factors, primes, squares **216/220/225/226**
- HCF and LCM **218/219**
- Product of prime factors (inc. venn diagram (H)) **224**

Topics that will be covered in the first half term of year 8

Ratio and scale

- Solve problems involving ratios in the form 1:n or n:1 **270/271**
- ... then m:n **270/271**
- Divide into a ratio **270**
- Express ratios in the form 1:n **271c (no worksheet available)**
- Compare ratios **(no specific video)**

Multiplicative Change

- Direct proportion **254**
- Conversion graphs **151/152**
- Currency conversion **214a**
- Direct proportion graphs **(no specific video)**

Multiplying and dividing fractions

- Represent multiplication of fractions **142**
- Multiply fraction by integer **142**
- Product of pair of unit / any fractions **142**
- Divide an integer by a fraction and vice versa **134**
- Divide any pair of fractions