

**Year 11 PPE**  
**February 2025**  
**Foundation Paper 1 revision list**  
**Non Calculator**

Topic	Sparx Number	R	A	G
Square rooting numbers. <i>e.g. what is <math>\sqrt{144}</math></i>	U851			
Cubing numbers. <i>e.g. what is <math>5^3</math></i>	U851			
Writing a number to a power of 10. <i>e.g. <math>1,000,000 = 10^6</math></i>	U851			
Direct proportion/using conversion facts. <i>e.g. if 5 miles = 8km, then 30 miles = ? km</i>	U721			
Converting between improper fractions and mixed numbers <i>e.g. convert <math>\frac{7}{4}</math> to a mixed number</i>	U692			
Adding fractions with the same denominator. <i>e.g. <math>\frac{1}{8} + \frac{3}{8}</math></i>	U736			
Finding factors of a number. <i>e.g. list the factors of 60</i>	U211			
Finding multiples of a number. <i>e.g. list the first five multiples of 7</i>	U751			
Ordering fractions, decimals and percentages <i>e.g. put in ascending order <math>\frac{2}{5}</math> 35% 0.42</i>	U594			
Adding and subtracting decimals	U478			
Completing frequency trees	U280			
Reading from and completing bar charts	U363 U557			
Recognising prime numbers	U236			
Finding the probability of a single event	U510			
Simplifying algebraic expressions by collecting like terms <i>e.g. simplify <math>3x + 8 + 12x - 4</math></i>	U105			
Multiplying algebraic expressions <i>e.g. simplify <math>12x \times \frac{1}{4}</math></i>	U613			
Long multiplication <i>e.g. calculate <math>43 \times 8</math></i>	U127			

Decreasing an amount by 10%	U773			
Writing a ratio in the form 1 : n or n : 1 e.g. write 12 : 3 in the form n : 1	U687			
Recognising congruent shapes	U790			
Enlarging a shape by a fractional scale factor. e.g. enlarge this shape by scale factor $\frac{1}{2}$	U519			
Dividing an amount in a given ratio. e.g. divide £60 in the ratio 1 : 2	U577			
Drawing a shape accurately, using a ruler and a compass	U678			
Calculations with speed distance and time	U151			
Finding the midpoint of a line	U933			
Multiplying decimal numbers e.g. $1.2 \times 1.3$	U293			
Completing function machines	M175			
Problem solving with mode, median and range	U260 U456 U526			
Geometric sequences e.g. what is the next number in the sequence 2, 4, 8, 16, .....	U213			
Fibonacci number sequences	U680			
Finding the number of faces, edges and vertices from a prism	U719			
Finding the volume of a prism	U174			
Subtracting mixed numbers e.g. $7\frac{1}{3} - 4\frac{5}{6}$	U793			
Finding values of sin, cos and tan for 30, 60 and 90° <a href="#">Memorize the trig table singing a song</a>	U627			
Problem solving with area of circles	U950			
Inverse proportion problems. e.g. if it takes 3 hours for 8 men to paint a wall, how long would it take 5 men?	U357			