



**Unit 13 – prime factorisation**

No.	Question	Answer
13.1	What is the index?	How many times a number has been multiplied by itself e.g. $3^5 = 3 \times 3 \times 3 \times 3 \times 3$
13.2	What does power mean?	How many times a number has been multiplied by itself e.g. $3^5 = 3 \times 3 \times 3 \times 3 \times 3$ "three to the power of five"
13.3	What does squared mean?	A number to the power of 2
13.4	What does cubed mean?	A number to the power of 3
13.5	What is a prime number?	A number that only has two factors, one and itself e.g. 7
13.6	What is a square number?	The result of multiplying a number by itself e.g. 25 (5 x 5)
13.7	What is the square root?	The inverse of squaring e.g. the square root of 64 is 8
13.8	What is an integer?	A whole number
13.9	What is a compound integer	A number that can be built as the product of prime factors
13.10	What are the prime factors?	The factors of a number that are also prime numbers
13.11	What does product mean?	Multiply
13.12	What is prime factor decomposition?	Breaking down a number into the product of its prime factors using a prime factor tree
13.13	What is a factor?	A number that divides into another number without any remainder
13.14	What is the HCF?	The highest common factor (the largest whole number that is a factor of both numbers)
13.15	What is a multiple?	A number in the times table
13.16	What is the LCM?	The lowest common multiple (the smallest number that is a multiple of both numbers)

**Unit 14/15 – fractions**

No.	Question	Answer
11.1	What is a fraction?	Part of a whole
11.2	What is the numerator?	This represents the number of parts we are describing
11.3	What is the denominator?	This represents the total number of equal parts
11.4	What are equivalent fractions?	Fractions that represent the same value
11.5	What is an improper fraction?	A fraction where the numerator is bigger than the denominator
11.6	What is a mixed fraction?	A fraction where there is a whole number and a fraction (it is bigger than one)
11.7	What is a unit fraction?	A fraction with a numerator of one
11.8	What is $\frac{1}{4}$ as a decimal?	0.25
	What is $\frac{1}{2}$ as a decimal?	0.5
11.9	What is $\frac{3}{4}$ as a decimal?	0.75
11.10	What is $\frac{1}{8}$ as a decimal?	0.125
11.11	What is $\frac{1}{5}$ as a decimal?	0.2
11.12	What is $\frac{1}{3}$ as a decimal?	0.3̄
11.13	What is $\frac{2}{3}$ as a decimal?	0.6̄
11.14	What is $\frac{1}{10}$ as a decimal?	0.1
11.15	What is $\frac{3}{10}$ as a decimal?	0.3
11.16	What is $\frac{2}{5}$ as a decimal?	0.4
11.17	What is $\frac{3}{5}$ as a decimal?	0.6
11.18	What is $\frac{7}{10}$ as a decimal?	0.7
11.19	What is $\frac{4}{5}$ as a decimal?	0.8
11.20	What is $\frac{9}{10}$ as a decimal?	0.9
11.21	What is 1 as a decimal?	1

**Unit 17 - percentages**

No.	Question	Answer
17.1	What is a percentage?	A fraction with a denominator of 100
17.2	What is $\frac{1}{10}$ as a percentage?	10%
17.3	What is $\frac{1}{10}$ as a decimal?	10%
17.4	What is $\frac{1}{100}$ as a percentage?	1%
17.5	What is $\frac{1}{100}$ as a decimal?	0.01
17.6	What is $\frac{1}{1000}$ as a percentage?	0.1%
17.7	What is $\frac{1}{1000}$ as a decimal?	0.001
17.8	How do you convert from a fraction to a %?	Make an equivalent fraction with a denominator of 100
17.9	How do you find 1% of an amount?	Divide by 100
17.10	How do you find 10% of an amount?	Divide by 10
17.11	How do you find 50% of an amount?	Divide by 2
17.12	How do you find 25% of an amount?	Divide by 4
17.23	How do you express a quantity as a percentage of another?	1. Represent the quantities as a fraction 2. Convert the fraction to decimal
17.24	How do you compare and order FDP?	Convert them all to be written in the same representation.
17.25	How do you increase by a %?	1. Find the percentage 2. Add it on
17.26	How do you decrease by a %?	1. Find the percentage 2. Take it away