

	Topic	Information	Examples	Sparx Clip
1	Factors and multiples	A factor is a number that divides exactly into another number without a remainder. A multiple is the result of multiplying a number by an integer. The times tables of a number.	The factors of 18 are: 1, 2, 3, 6, 9, 18 The first five multiples of 7 are: 7, 14, 21, 28, 35	M462, M354, M227, M823, M698
2	Primes	A number with exactly two factors . A number that can only be divided by itself and one.	The first ten prime numbers are: 2, 3, 5, 7, 11, 13, 17, 19, 23, 29	M322, M108, M462
3	Writing and comparing fractions	To find a fraction of an amount - Divide by the denominator , times by the Numerator Equivalent fractions - Fractions which represent the same value . To simplify fractions - Divide the numerator and denominator by the highest common factor .	Find $\frac{2}{5}$ of £60 $60 \div 5 = 12$ $12 \times 2 = 24$ $\frac{2}{5} = \frac{4}{10} = \frac{20}{50} = \frac{60}{150}$ etc. $\frac{20}{45} = \frac{4}{9}$	M227, M698, M158, M939, M410, M671, M335, M601
4	Adding and subtracting fractions	Use equivalent fractions to make the denominators equal then add or subtract the numerators . Simplify the answer if possible, for extra marks	$\frac{1}{2} + \frac{1}{3} = \frac{3}{6} + \frac{2}{6} = \frac{5}{6}$ $\frac{1}{3} - \frac{1}{4} = \frac{4}{12} - \frac{3}{12} = \frac{1}{12}$	M227, M698, M671, M410, M601, M835, M931