FA1.5

1) List the factors of 100

2) Work out 4.05 + 368.9

3) Work out -5 - 4

4) Work out 65 × 74

5) Work out 0.6 × 12

FA1.6

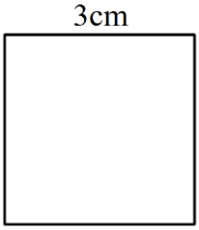
1) Work out $12 - 4 + 3$

2) Simplify $12a - 4a + 3a + 2b$

3) Solve $10x - 2 = -7$

4) Find the mean of 21, 32, 24, 19

5) Calculate the area and perimeter of a square with side length 3cm



FA2.5

1) Expand and simplify $3(2x - 5) - 2(3x - 10)$

2) Solve the equation $3(4x - 2) = 270$

3) Work out £1012 ÷ 22

4) Express 156 as a product of prime factors

5) If the nth term of a sequence is $5n - 7$, what is the 8th term?

FA2.6

1) Find 55% of 420

2) Complete 0.34kg ……. 89g
(<, = or >)

3) Work out the value of $6n - 12$ when $n = 0$

4) Work out 0.03 × 1.1

5) Simplify the ratio 70 cl: 2 l (70 centilitres : 2 litres)

FA3.5

1) Solve the equation $2x - 18 = 5x + 3$

2) Expand and simplify $6(5a + 3b) + 4(2a - b)$

3) Work out 27 ÷ 5

4) Find 35% of £340

5) Divide £90 in the ratio 3 : 2

FA3.6

1) Work out $(4 + 3^2) \times 2$

2) If the n^{th} term of a sequence is $2.5n + 7$, what is the 4^{th} term?

3) Factorise $21 - 28x$ and factorise fully $15x^2 + 6x^3$

4) Express 240 as a product of its prime factors

5) How much change from £10 would you get if you bought two items costing £2.74 each?

FA4.5

1) Work out $\frac{5}{6} + \frac{3}{8}$

2) Round 94.38 to 1 significant figure

3) Work out $\frac{3}{8} \div \frac{1}{4}$

4) Factorise fully $12x + 18x^2$

5) Find the lowest common multiple of 10 and 8

FA4.6

1) Work out 64×64

2) Express $\frac{9}{40}$ as a percentage

3) What is the 13th square number?

4) Find 75% of £320

5) Calculate the circumference of a circle with radius 8m.
Leave your answer in terms of π

FA5.5

1) Work out $\frac{4}{5} \div \frac{2}{9}$

2) By rounding each number to one significant figure, estimate $\frac{623 \times 767.34}{282.1 + 142}$

3) Increase £4620 by 15%

4) Find the nth term of this sequence 76, 88, 100, 112, …

5) Solve the equation $7x - 4 = 5x - 3$

FA5.6

1) Work out the value of $2x^2 + 3x$ when $x = 5$

2) Expand and simplify $4(b + 3a) - 3(3a - b)$

3) Work out $3435 \div 0.05$

4) Work out $2 \times 5^2 - 20 \div 2$

5) Work out $\frac{5}{6}$ of 642

FA6.5

1) Solve $10x - 8 > 6$ and display the solution on a number line

2) Work out $2.632 \div 0.07$

3) Express $\frac{1}{3}$ as a percentage

4) Factorise fully $18x^3 - 24x^2$

5) Make x the subject of $y = a\sqrt{x} + b$

FA6.6

1) Express 196 as a product of primes, and hence find its square root

2) Decrease £90 by 15%

3) Work out four fifths of 4140

4) Estimate, by rounding each number to one significant figure,

$$\frac{306.4 \times 58.3}{92.76}$$

5) Work out the value of $10x - 3x$ when $x = -3$