FA6.1

1) Solve $4x + 9 \leq 1$ and display the solution on a number line

2) Work out $72 \div 0.3$

3) Express $\frac{6}{25}$ as a percentage

4) Factorise fully $32x - 12x^2$

5) Make x the subject of $y = ax - b$

FA6.2

1) Express 120 as a product of primes

2) Decrease £360 by 15%

3) Work out three sevenths of 392

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

$$\frac{36.4 \times 11.3}{2.173}$$

5) Work out the value of $12 + 4x^2$ when $x = -3$

FA6.3

1) Solve $3x - 8 \leq 4$ and display the solution on a number line

2) Work out $24.64 \div 0.7$

3) Express 15% as a fraction in its lowest terms

4) Factorise fully $12x^3 + 18x$

5) Make x the subject of $y = a(x - b)$

FA6.4

1) Express 324 as a product of primes, and hence find its square root

2) Increase £120 by 35%

3) Work out five twelfths of 4140

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

$$\frac{2036.4 \times 38.3}{23.73}$$

5) Work out the value of $20 - 3x^2$ when $x = -2$

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 $x = -3$