91.1

1) Work out $\frac{3}{4} \div \frac{1}{6}$

2) Work out 1.2 × 2.89

3) Evaluate 3^0

4) Expand $4a(3 - 2a)$

5) Complete 12km/h = ? m/s

91.2

1) Find 35% of £460

2) Solve $5x + 6 = 3x - 1$

3) Make x the subject of $y = x^2 - b$

4) Find the nth term: 17, 23, 29, 35, …

5) Work out $6 \times 3 - (4 + 7)$

92.1

1) Expand and simplify $(x-3)(x+2)$

2) Work out 36.3×10^3

3) Distance = 8km, Time = 10 minutes,

Speed = ? km/h

4) Work out $2\frac{1}{4} \times \frac{2}{3}$

5) Express 130 as a product of prime factors

92.2

1) Solve $\frac{9x+3}{2} = 5x - 4$

2) List the first 4 terms of a geometric sequence with a first term of 2 and a common ratio of 3

3) Divide £35 in the ratio 3 : 2

4) Decrease £3400 by 20%

5) Simplify $(2x^2y)^3$

93.1

1) $3(4a + b) - 2(a + 3b)$

2) Work out $2\frac{1}{2} \div 1\frac{2}{3}$

3) Work out $10 + 5 \times 4 \div 2$

4) Factorise fully $24x^3 - 8x$

5) Express 314000000 in standard form

93.2

1) What is the next term of this sequence:

3, 12, 48, 192, ?

2) Work out $78 \div 0.3$

3) Make x the subject of $y = \frac{x^2}{a}$

4) Expand and simplify $(x + 10)(x - 3)$

5) Simplify $\frac{2x}{3} + \frac{5x}{4}$

94.1

1) Simplify $\frac{15x^3y^4}{3x^2y}$

2) Factorise $x^2 - 25$

3) If $x = -3$, find the value of $2x^2 + x + 3$

4) If the nth term of a sequence is $3 \times 2^{n-1}$, find the 4th term

5) Estimate, by rounding each number to 1 significant figure:

$0.531^2 \times 95.8$

94.2

1) Find the lowest common multiple of 42 and 60

2) Expand and simplify $(2x - 3)^2$

3) Express 0.00104 in standard form

4) A block has a mass of 30g and a density of 5g/cm³.

Calculate its volume.

5) Make x the subject of $y = (a + b)x^2$

95.1

1) Find the distance:

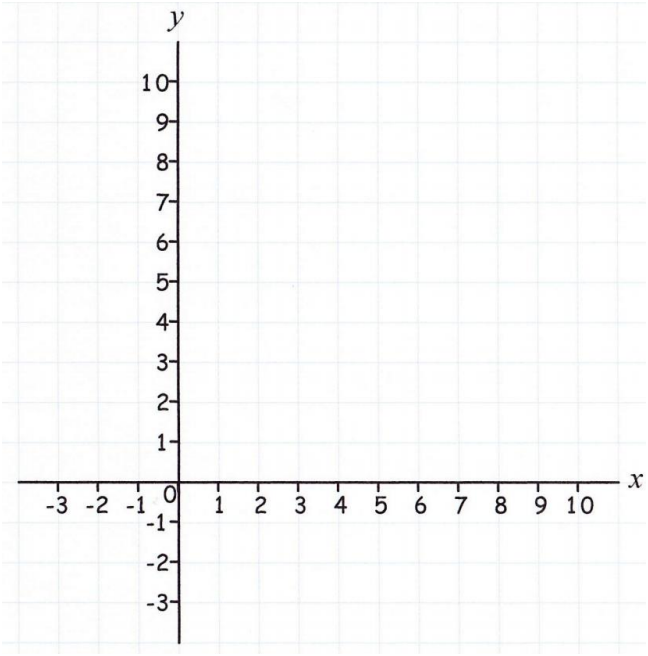
Speed = 40 km/h and time = 1 hour 30 mins

2) Factorise $x^2 + 9x + 20$

3) Expand and simplify $(x^2 - 3)(x + 7)$

4) Express 0.002003 in standard form

5) Find the gradient of the line $2y - 6x = 3$



95.2

1) Make x the subject of $y = (ax + b)^2$

2) Express $\frac{43}{40}$ as a percentage

3) Solve $\frac{x+3}{2} + \frac{x}{3} = 11$

4) By rounding each number to 1 significant figure,

estimate $\frac{58^2 \times 3.89}{1.93}$

5) Find the first term: ?, 20, 100, 500, 2500, …

96.1

1) Work out $3\frac{1}{2} \div 1\frac{2}{3}$

2) A price is reduced from £500 to £340. Calculate the percentage change.

3) Expand and simplify $(x + 1)(x - 2)(x + 3)$

4) Expand and simplify $(4x - 3)^2$

5) What is the 50th term of this sequence: 3, 9, 15, 21, … ?

96.2

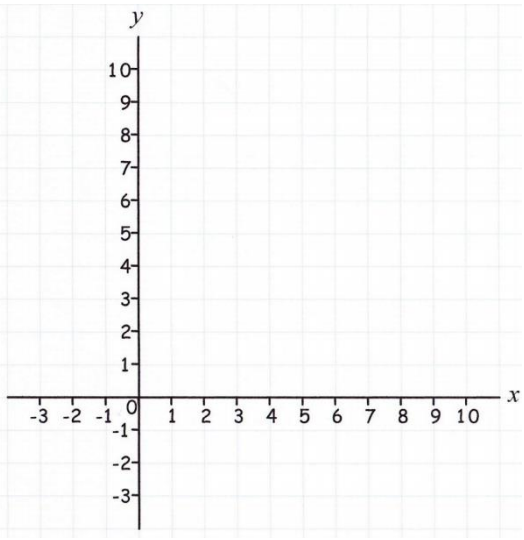
1) *x* is given as 60 to 1 significant figure.

Write an inequality to show the range of values that *x* could take.

2) Factorise $2x^2 + 7x + 6$

3) Work out $4 \times 10^3 \times 7 \times 10^2$, giving the answer in standard form

4) Find the *y*-intercept of the line $2y - 3x = 10$



5) Solve $\frac{x}{3} + 5 = x + 1$