91.5

1) Work out $\frac{1}{2} \times \frac{6}{7}$

2) Work out 0.35×6.7

3) Evaluate 5^0

4) Expand $6x(4x - 3)$

5) Complete: ? m/s = 18 km/hr

91.6

1) Find 75% of £460

2) Solve $4x - 7 = 11 - 2x$

3) Make x the subject of $y = \sqrt{ax}$

4) Find the nth term: 35, 38, 41, 44, …

5) Work out $6^2 - (2 \times 5 + 3) \times 2$

92.5

1) Expand and simplify $(x + 8)(x - 4)$

2) Work out 653.163×10^2

3) Distance = 12km, Time = 240 minutes,

Speed = ? km/h

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

5) Express 270 as a product of prime factors

92.6

1) Solve $\frac{10x+5}{3} = 2x - 5$

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

3) Divide £35 in the ratio 3 : 7

4) Decrease £4560 by 5%

5) Simplify $(4x^2y^3)^3$

93.5

1) Simplify $2(3a - 2b) - (a - 2b)$

2) Work out $1\frac{2}{5} \div 3\frac{1}{3}$

3) Work out $6 \times 2 + 8 \div 4$

4) Factorise fully $12x^3 + 18x^2$

5) Express 888 in standard form

93.6

1) What is the next term of this sequence:

6, 30, 150, 750, …

2) Work out $420 \div 1.2$

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

4) Expand and simplify $(x + 2)(x + 1)$

5) Simplify $\frac{6x}{6} + \frac{3x}{8}$

94.5

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

2) Factorise $25x^2 - 1$

3) If $x = -3$, find the value of $x^2 - x + 5$

4) If the nth term of a sequence is $3 \times 5^{n-1}$, find the 3rd term

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

$$\frac{46.3 \times 17.3}{0.53}$$

94.6

1) Find the lowest common multiple of 24 and 40

2) Expand and simplify $(5x - 6)^2$

3) Express 0.00801 in standard form

4) A block has a mass of 240g and a density of 20g/cm³.

Calculate its volume.

5) Make x the subject of $y = a - bx^2$

95.5

1) Find the distance:

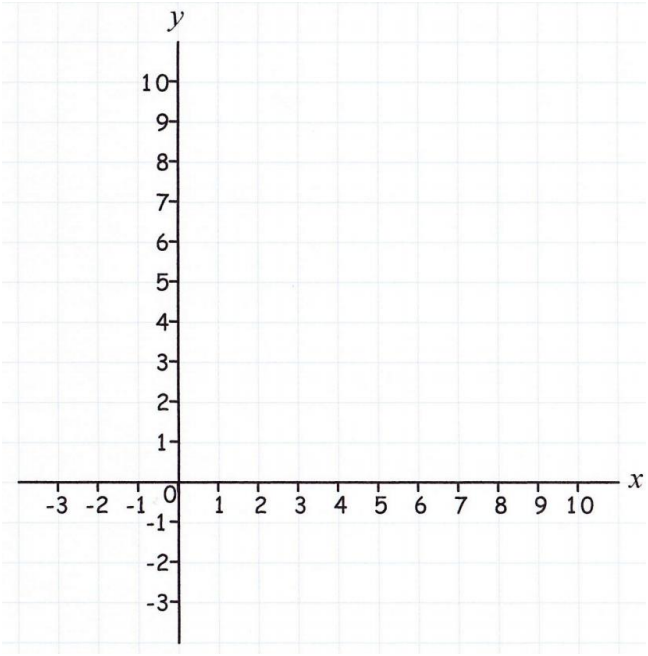
Speed = 40 km/h and time = 2 hour 45 mins

2) Factorise $x^2 - 6x + 8$

3) Expand and simplify $(x + 5)(x^2 - 3)$

4) Express 0.0007 in standard form

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



95.6

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

2) Express $\frac{12}{30}$ as a percentage

3) Solve $\frac{x+2}{2} + \frac{4-2x}{5} = 6$

4) By rounding each number to 1 significant figure,

estimate $\frac{7.1 \times 83.99}{0{\cdot}49}$

5) Find the first term: ?, 1, 6, 36, …

96.5

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

2) A price is decreased from £400 to £340. Calculate the percentage change.

3) Expand and simplify $(x-4)(x-5)(x-3)$

4) Expand and simplify $(10x-1)^2$

5) What is the 30th term of this sequence: 13, 24, 35, 46, … ?

96.6

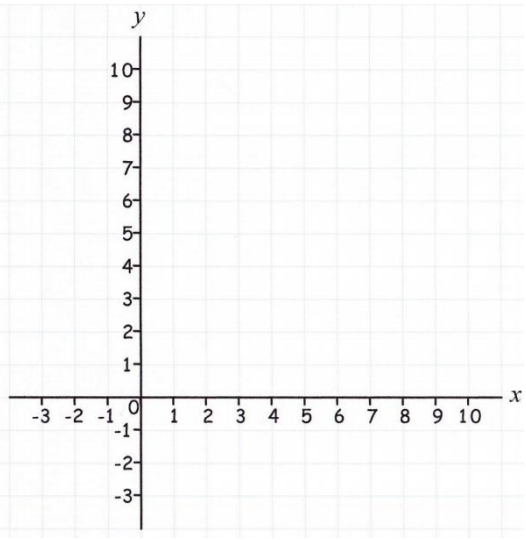
1) *x* is given as 2.0 to 1 decimal place.

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

2) Factorise $5x^2 - 18x - 8$

3) Work out $4 \times 10^8 \times 3 \times 10^{-2}$, giving the answer in standard form

4) Find the *y*-intercept of the line $2y + 3x = 5$



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