

91.3



1) Work out $\frac{5}{6} \div \frac{1}{2}$

2) Work out 5.6×0.97

3) Evaluate 4^3

4) Expand $3x(5 - 2x)$

5) Complete: $10 \text{ m/s} = ? \text{ km/hr}$



91.4

1) Find 25% of £320

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

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

4) Find the n th term: 7, 18, 29, 40, ...

5) Work out $10 - 2 \times 2 + 3$



92.3

1) Expand and simplify $(x - 6)(x - 2)$

2) Work out 3684.3×10^{-2}

3) Distance = 12km, Time = 15 minutes,
Speed = ? km/h

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

5) Express 98 as a product of prime factors

92.4



1) Solve $\frac{4x-5}{3} = 2x - 7$

2) List the first 4 terms of a geometric sequence with a first term of 2 and a common ratio of 10

3) Divide £60 in the ratio 7 : 5

4) Increase £2800 by 20%

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

93.3



1) $2(3a + 5b) - 6(a - 2b)$

2) Work out $3\frac{1}{2} \div 2\frac{4}{5}$

3) Work out $13 - 2 \times 5 + 4$

4) Factorise fully $36y^2 - 45y$

5) Express 5010000 in standard form



93.4

1) What is the next term of this sequence:

4, 12, 36, 108, ...

2) Work out $7.24 \div 0.4$

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

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

5) Simplify $\frac{4x}{5} - \frac{x}{4}$

94.3



1) Simplify $\frac{(4x^2y)^2}{2xy}$

2) Factorise $4x^2 - 9$

3) If $x = 0.5$, find the value of $3x^2 - x + 5$

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

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

$$0.213^2 \times 96.04$$

94.4



- 1) Find the highest common factor of 42 and 60

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

- 3) Express 2.03×10^{-3} in ordinary form

- 4) A block has a volume of 30cm^3 and a density of 5g/cm^3 .
Calculate its mass.

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

95.3



1) Find the distance:

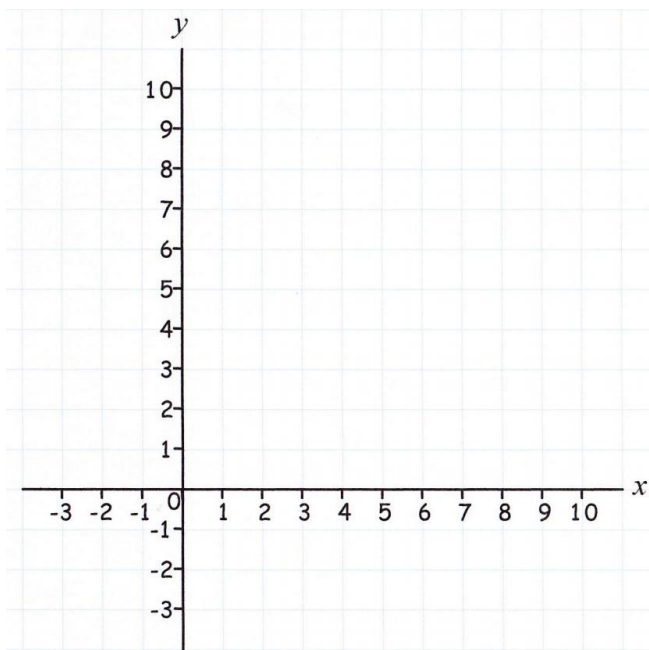
Speed = 48 km/h and time = 2 hour 15 mins

2) Factorise $x^2 + 3x - 4$

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

4) Express 20190 in standard form

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



95.4



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

2) Express $\frac{39}{150}$ as a percentage

3) Solve $\frac{2x}{4} + \frac{x-3}{3} = 11$

4) By rounding each number to 1 significant figure,

estimate $\frac{82.3 \times 7.58}{0.176}$

5) Find the first term: ?, 0.375, 0.75, 1.5, 3, ...

96.3



1) Work out $2\frac{3}{4} \times 1\frac{2}{5}$

2) A price is increased from £250 to £340. Calculate the percentage change.

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

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

5) What is the 20th term of this sequence: 10, 17, 24, 31, ... ?

96.4



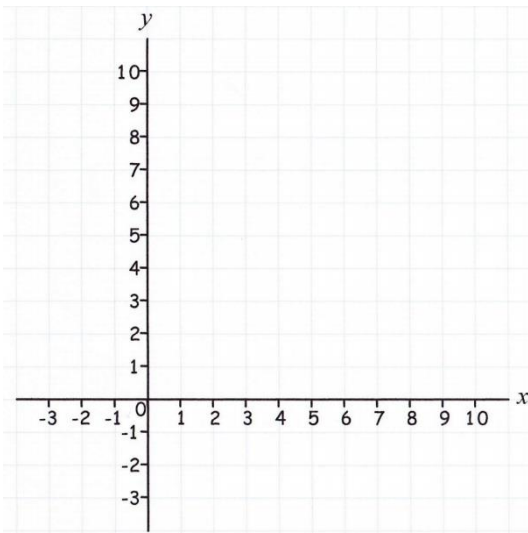
1) x is given as 50 to 2 significant figures.

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

2) Factorise $3x^2 + 7x - 6$

3) Work out $3 \times 10^{-3} \times 6 \times 10^{-2}$, giving the answer in standard form

4) Find the y -intercept of the line $2y = 6x + 5$



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