elevise

Edexcel GCSE Maths Foundation

Paper 1 June 2017

Non-Calculator

Second Half

38 Marks

Past Paper Website Home

www.elevise.co.uk

17 5 tins of soup have a total weight of 1750 grams.
4 tins of soup and 3 packets of soup have a total weight of 1490 grams.

Work out the total weight of 3 tins of soup and 2 packets of soup.

CF17A

..... grams

(Total for Question 17 is 4 marks)

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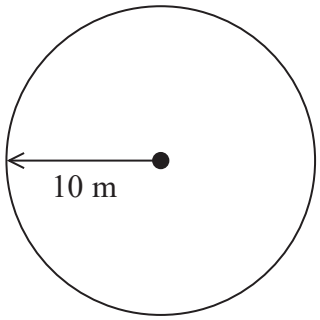
18 Balena has a garden in the shape of a circle of radius 10 m.
He is going to cover the garden with grass seed to make a lawn.



Grass seed is sold in boxes.
Each box of grass seed will cover 46 m^2 of garden.

Balena wants to cover all the garden with grass seed.

(a) Work out an estimate for the number of boxes of grass seed Balena needs.
You must show your working.

CF18A

.....

(4)

(b) Is your estimate for part (a) an underestimate or an overestimate?
Give a reason for your answer.

.....

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.....

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(1)

(Total for Question 18 is 5 marks)

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19 (a) Solve $4(x - 5) = 18$

CF19A

$x =$ .....

(2)

$-3 < t \leqslant 2$
t is an integer.

(b) Write down all the possible values of t.

.....

(2)

(Total for Question 19 is 4 marks)

20 Azmol is paid £1500 per month.
He is going to get a 3% increase in the amount of money he is paid.

Work out how much money Azmol will be paid per month after the increase.

CF20A

£.....

(Total for Question 20 is 2 marks)

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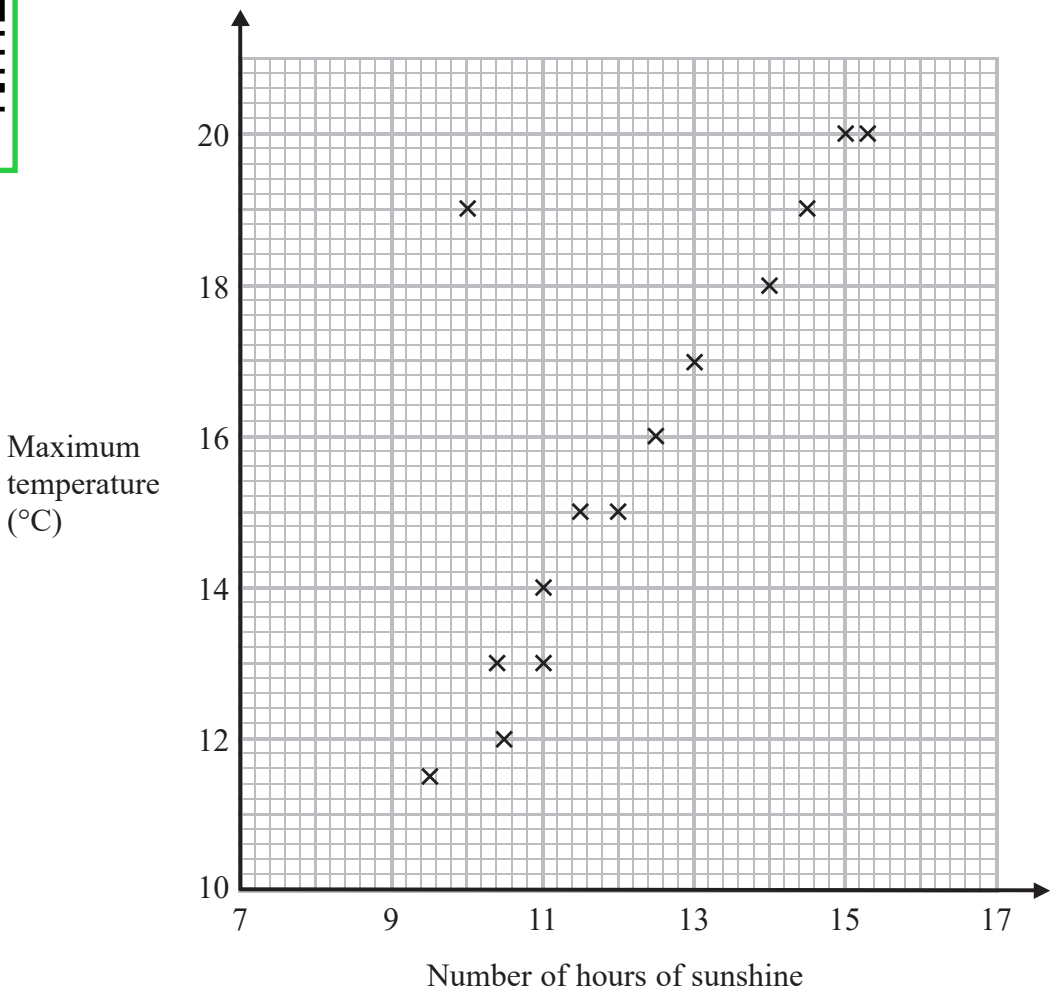
21 The scatter graph shows the maximum temperature and the number of hours of sunshine in fourteen British towns on one day.

CF21A



One of the points is an outlier.

(a) Write down the coordinates of this point.

(..... , ...)

(1)

(b) For all the other points write down the type of correlation.

.....

(1)

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On the same day, in another British town, the maximum temperature was 16.4 °C.

(c) Estimate the number of hours of sunshine in this town on this day.

..... hours

(2)

A weatherman says,

"Temperatures are higher on days when there is more sunshine."

(d) Does the scatter graph support what the weatherman says?
Give a reason for your answer.

.....

.....

(1)

(Total for Question 21 is 5 marks)

22 Express 56 as the product of its prime factors.

CF22A

.....

(Total for Question 22 is 2 marks)

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23 Work out 54.6 × 4.3

CF23A

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(Total for Question 23 is 3 marks)

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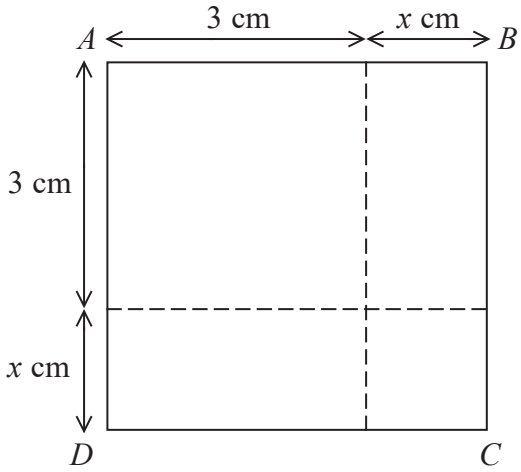
24



CF24A

The area of square $ABCD$ is 10 cm^2.

Show that $x^2 + 6x = 1$

(Total for Question 24 is 3 marks)

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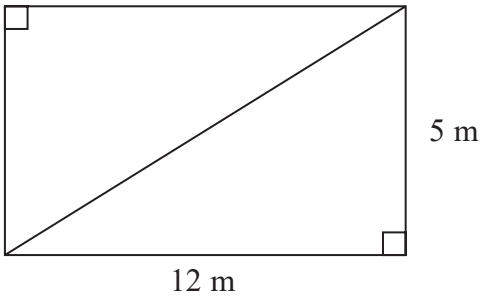
25 This rectangular frame is made from 5 straight pieces of metal.

CF25A



The weight of the metal is 1.5 kg per metre.

Work out the total weight of the metal in the frame.

..... kg

(Total for Question 25 is 5 marks)

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26 The equation of the line L_1 is $y = 3x - 2$
The equation of the line L_2 is $3y - 9x + 5 = 0$

Show that these two lines are parallel.

CF26A

(Total for Question 26 is 2 marks)

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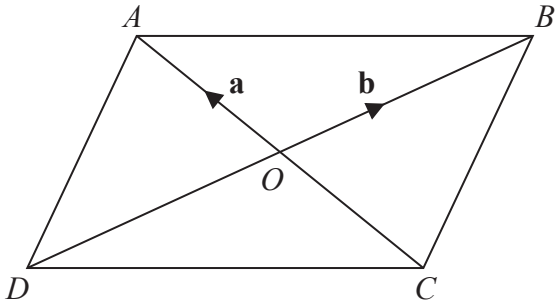
27



CF27A

ABCD is a parallelogram.
The diagonals of the parallelogram intersect at *O*.

$\overrightarrow{OA} = \mathbf{a}$ and $\overrightarrow{OB} = \mathbf{b}$

(a) Find, in terms of **b**, the vector $\overrightarrow{DB}$.

.....

(1)

(b) Find, in terms of **a** and **b**, the vector $\overrightarrow{AB}$.

.....

(1)

(c) Find, in terms of **a** and **b**, the vector $\overrightarrow{AD}$.

.....

(1)

(Total for Question 27 is 3 marks)

TOTAL FOR PAPER IS 80 MARKS

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