

Please write clearly in block capitals.

Centre number

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Candidate number

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Surname

Forename(s)

Candidate signature

GCSE MATHEMATICS

Grades 1-2

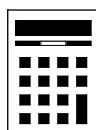
Calculator Test 2

Time allowed: 1 hour

Materials

For this paper you must have:

- A calculator
- mathematical instruments.



Instructions

- Use black ink or black ball-point pen. Draw diagrams in pencil.
- Answer **all** questions.
- You must answer the questions in the spaces provided. Do not write outside the box around each page or on blank pages.
- Do all rough work in this book. Cross through any work you do not want to be marked.

Information

- The marks for questions are shown in brackets.
- The maximum mark for this paper is 46.
- You may ask for more answer paper, graph paper and tracing paper. These must be tagged securely to this answer book.

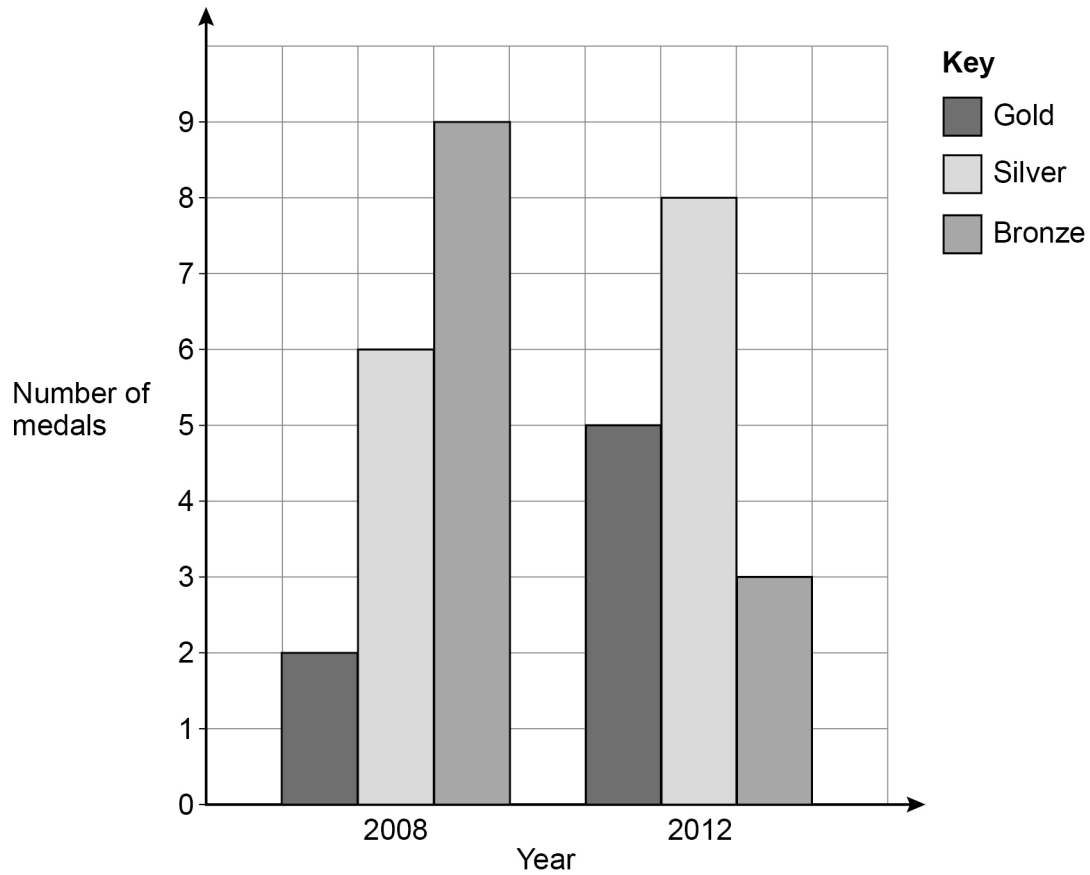
Advice

- In all calculations, show clearly how you work out your answer.

For Examiner's Use	
Pages	Mark
2–3	
4–5	
6–7	
8–9	
10–11	
12–13	
14	
TOTAL	

Answer **all** questions in the spaces provided

- 1 The bar chart shows the number of medals won by a country at events in 2008 and 2012



Show that the country won **more** medals in 2008 than in 2012

[2 marks]



2

A competition

took place in 1983

takes place every six years.

Circle the year in which it will also take place.

[1 mark]

2083

2036

2049

2023

3

$$d = g^2 - 2h$$

Work out the value of d when $g = 15$ and $h = 63$

[2 marks]

 $d =$ _____

4

Josh downloads album A.

A has 11 tracks.

Each track on A costs the same.

The total cost of downloading A is £8.80

Josh also downloads album B.

B has 14 tracks.

Work out the total cost of downloading B.

Assume each track costs the same as a track on A.

[3 marks]

Answer £ _____



5

Ali revises each day for five days.

On each of the first **four** days he revises from 5 pm to 8 pm

On the fifth day he starts revising at 1 pm

He finishes when he has revised for a **total** of 18 hours for the five days.

What time does he finish on the fifth day?

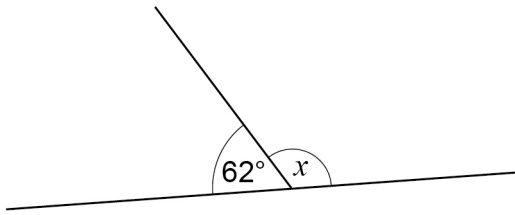
[3 marks]

Answer _____



- 6 (a) Here are two straight lines.

Not drawn
accurately



Work out the size of angle x .

[1 mark]

$x =$ _____ degrees

- 6 (b) In a triangle, two of the angles are 51° and 74° .

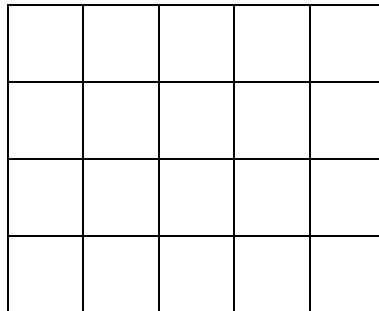
Work out the size of the third angle.

[1 mark]

Answer _____ degrees

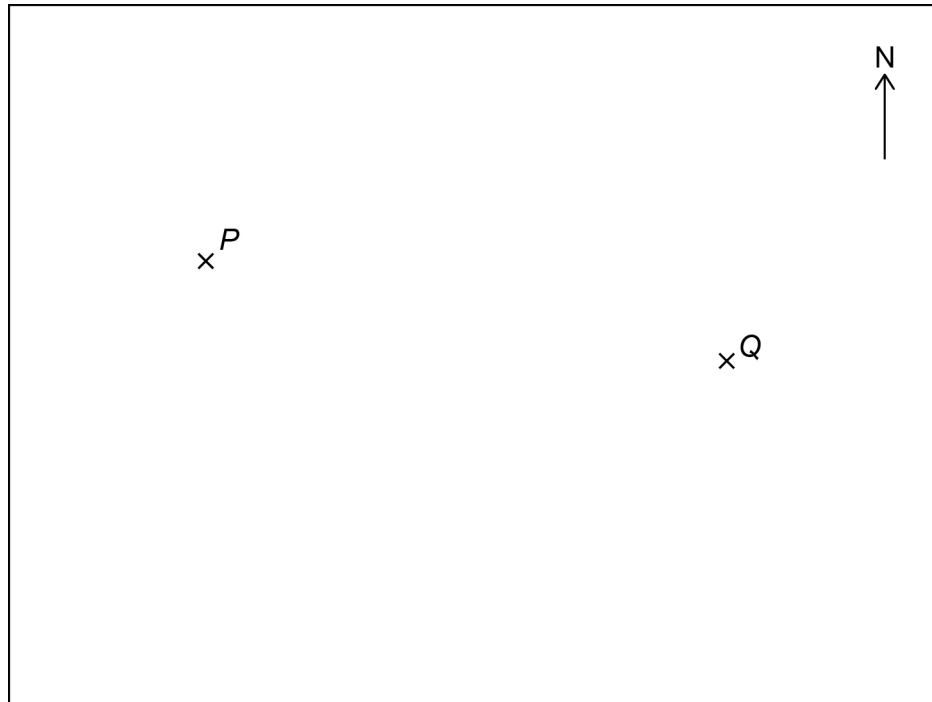
- 7 Shade 10% of this grid.

[1 mark]



8 Here is a map showing two towns, *P* and *Q*.

Scale: 1 cm represents 50 km



Town *R* is 200 km due South of town *P*.

Mark *R* on the map.

[2 marks]

5

Turn over ►



9

This week, Liam works

25 hours at £10.20 per hour

and

extra hours at the weekend at £11.80 per hour.

Here are the extra hours he works at the weekend.

Saturday	7 am to 10 am
Sunday	1 pm to 3 pm

In **total**, how much is he paid this week?

[4 marks]

Answer £ _____



[3 marks]

[4 marks]

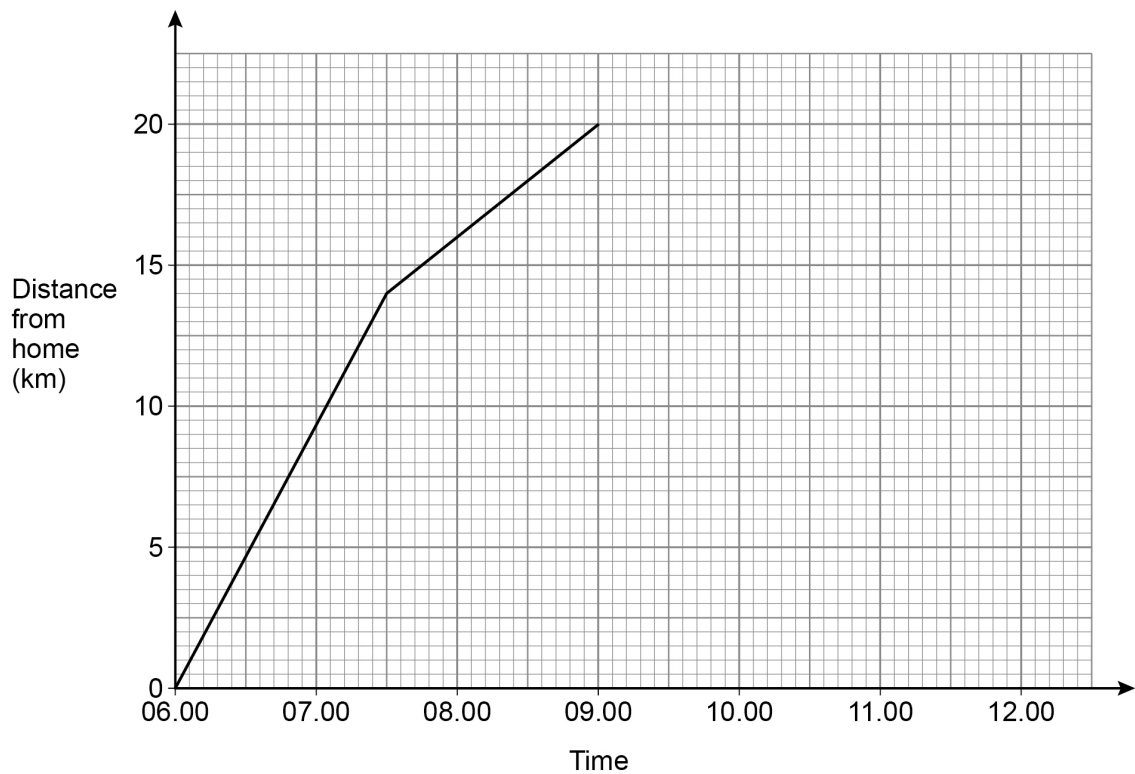
11

12

Jenny leaves home at 06.00

She runs for 3 hours.

Here is a distance-time graph of her run.



For the next hour she rests.

She then gets a bus home.

She arrives home at 11.30

Complete the distance-time graph.

Assume the bus travels at a constant speed.

[2 marks]

13

Circle the value of 2^5

[1 mark]

10

25

32

64



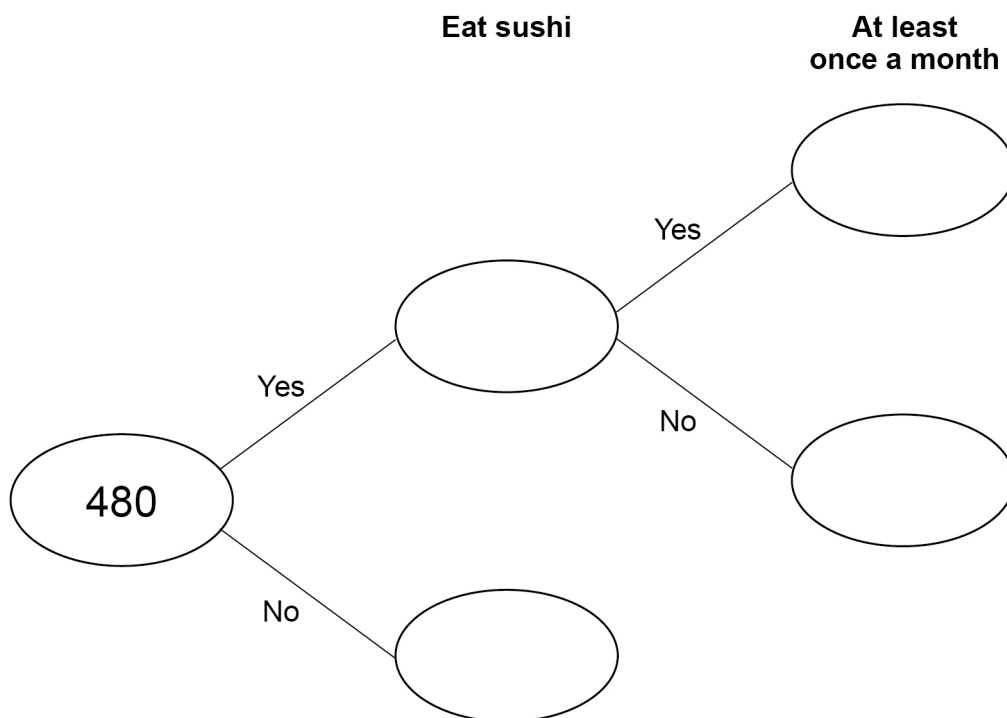
14

480 people are asked if they eat sushi.

20% say Yes.

 $\frac{2}{3}$ of the people who say Yes eat sushi at least once a month.

Complete the frequency tree.

[4 marks]

15

Tom is tiling a wall.

He needs to buy at least 100 tiles.

The tiles are sold in large packs and small packs.

Large pack 40 tiles £18

Small pack 28 tiles £14

Special offer

25% reduction when you buy 3 or more **large** packs

Work out the cheapest cost for Tom to buy the packs of tiles he needs.

[3 marks]

Answer £ _____

16

The cost of 5 kg of potatoes is £3.20

The cost of $\frac{1}{2}$ kg of carrots is 29p

Work out the **total** cost of 12 kg of potatoes and $1\frac{1}{2}$ kg of carrots.

[3 marks]

Answer £ _____



- 17** The probability that A is the outcome of an experiment is 0.2

Circle the probability that A is **not** the outcome.

[1 mark]

0

0.2

0.5

0.8

- 18** Solve $\frac{c}{4} = 8$

[1 mark]

$c =$ _____

- 19** w is greater than 1 **and** less than 2
 x is greater than 0 **and** less than 1

$w + x = 2.6$

Work out a possible pair of values for w and x .

[2 marks]

$w =$ _____ $x =$ _____

20

The term-to-term rule for a sequence is

subtract 1 then multiply by 5

The 1st term is 4

Work out the 3rd term.

[2 marks]

Answer _____

END OF QUESTIONS

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