

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

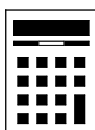
Calculator Test 1

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 48.
- 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	
TOTAL	

1 A dry cleaning shop has the following offers.

A black sleeveless dress with a high neckline and a full, flowing skirt, displayed against a white background. The dress has a simple, elegant design with a slight flare at the hem.

[4 marks]

[illegible]

Answer £ _____



2

Steve and Molly each buy 480 tea bags.

Small packs

80 tea bags for £1.90

Large packs

160 tea bags for £3.25

Steve buys only small packs.

Molly buys only large packs.

In total, how much **more** than Molly does Steve pay?**[4 marks]**

Answer £ _____

3

Solve $2x + 3 = 27$ **[2 marks]**

 $x =$ _____

10

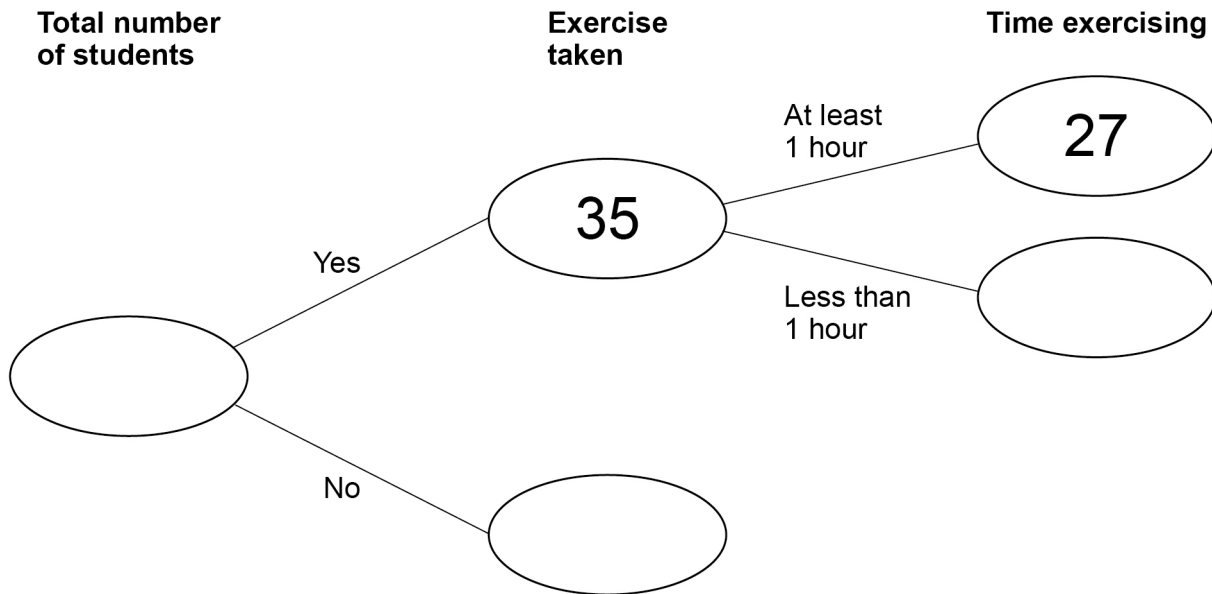
Turn over ►

- 4 Some students were asked about their daily exercise.

12 **more** students answered Yes than answered No.

Complete the frequency tree.

[3 marks]



- 5 $r : w = 1 : 4$

Write down the ratio $r^2 : w^2$

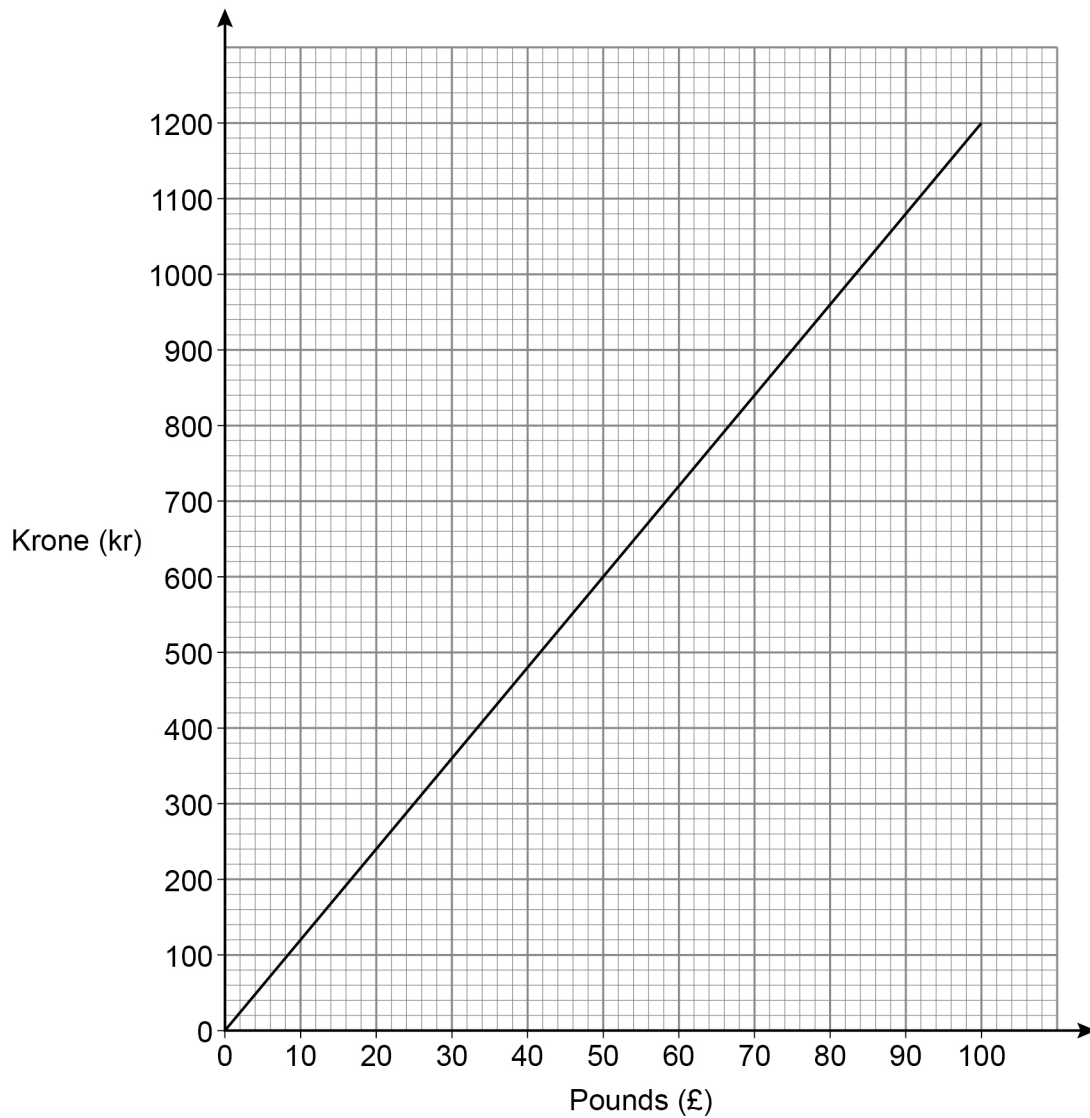
[1 mark]

Answer _____ : _____



6

The graph below is used to convert between pounds (£) and Norwegian krone (kr).



Convert £500 into krone.

[2 marks]

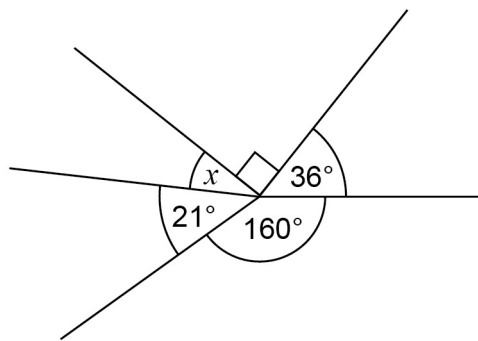
Answer _____ kr



- 7 Work out the value of $3^6 - \sqrt{841}$ [2 marks]

Answer _____

8



Not drawn
accurately

Work out the size of angle x .

[2 marks]

Answer _____ degrees



9

Here are eight numbers.

4 10 9 3 4 12 5 14

Work out the range.

[1 mark]

Answer _____

10

Here are five cards.

1	5	7	9	11
---	---	---	---	----

One of the cards is removed.

The mean of the numbers on the remaining four cards is 6

Which card was removed?

You **must** show your working.**[3 marks]**

Answer _____



- 11 Sue is working with 2-digit numbers.
She multiplies the digits together to get an answer.

For 63, she multiplies 6 by 3
so 63 gives an answer of 18

Write down a 2-digit number that gives an answer **greater** than 70

[1 mark]

Answer _____

- 12 In a bag there are 10p coins, 20p coins and 50p coins.
There are two **fewer** 20p coins than 10p coins.
There are five **more** 50p coins than 10p coins.

Complete the table.

[1 mark]

Coin	Number of coins
10p	n
20p	$n - 2$
50p	

13

Simplify

$$5a + 2 - a + 9$$

[2 marks]

Answer _____

14

Karl has twin sisters.

The sum of the ages of Karl and his twin sisters is 39

In 4 years' time the twins will be 18

How old will Karl be in 4 years' time?

[3 marks]

Answer _____

- 15** Which is longer, $\frac{3}{4}$ of a day or 1000 minutes?

You **must** show your working.

[3 marks]

Answer _____

- 16** In this question, use

1 kilogram = 2.2 pounds

1 stone = 14 pounds

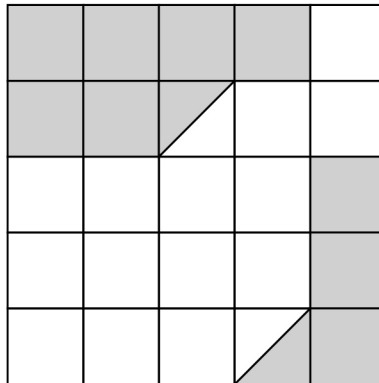
Change 70 kilograms into stones.

[3 marks]

Answer _____ stones



17 What percentage of this shape is shaded? **[2 marks]**



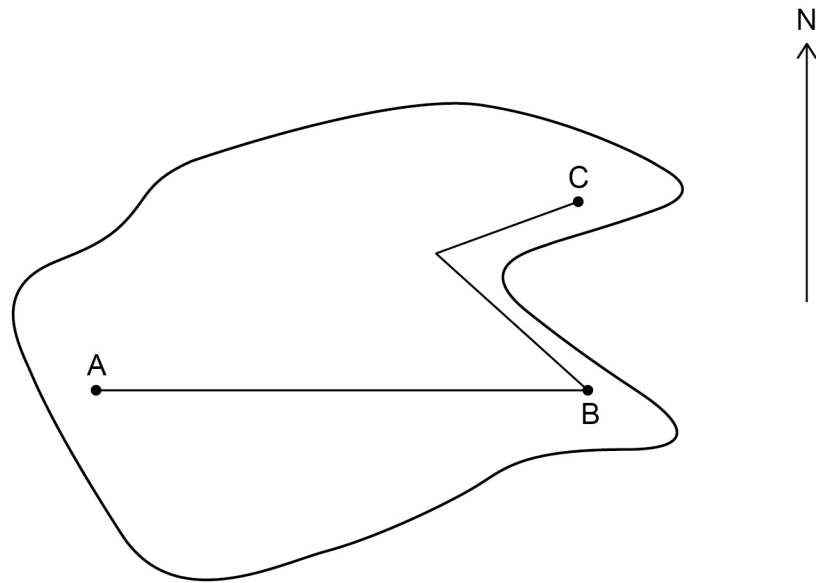
Answer _____ %

18

Here is a map of an island with cities A, B and C.

The straight lines represent roads.

Scale: 1 cm represents 200 km



Umar drives from A to B on the route shown.

Kaz drives from B to C on the route shown.

Use the map to work out how much further Umar drives than Kaz.

You **must** show your working.

[5 marks]

Answer _____ km



19

In a test,

Section A has 80 marks

Section B has 120 marks.

Riya scores

55% in Section A

70% in Section B.

To pass, Riya needs to score 65% of the **total** marks.

Does she pass?

You **must** show your working.**[4 marks]**

Answer _____

9

END OF QUESTIONS**Copyright Information**

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