

Please write clearly in block capitals.

Centre number

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Candidate number

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Surname

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Forename(s)

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Candidate signature

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GCSE MATHEMATICS

Grades 2-3

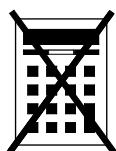
Non-Calculator Test 1

Time allowed: 1 hour

Materials

For this paper you must have:

- mathematical instruments.



You must **not** use a calculator.

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 45.
- 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	
TOTAL	

Answer **all** questions in the spaces provided**1**

$$T = 5P - W$$

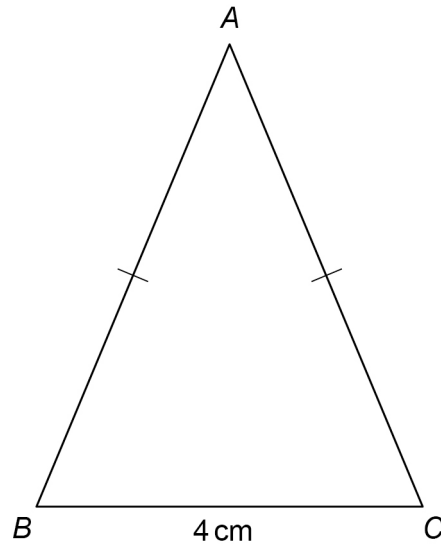
Work out the value of T when $P = 4$ and $W = 2$ **[2 marks]**

 $T =$ _____

2

In this isosceles triangle,

$$AB = AC$$

Not drawn
accurately

The perimeter of the triangle is 22 cm

Work out the length of AB .**[3 marks]**

Answer _____ cm

3

Match each box on the left to the box on the right with the same value.

One has been done for you.

[3 marks]

$\frac{1}{10}$	0.1
	0.05
$\frac{1}{2}$	20%
$\frac{1}{4}$	$\frac{2}{6}$
$\frac{1}{5}$	0.25
	$\frac{10}{20}$

4

Here is a list of numbers.

14 9 20 29 3 45 33

Which number in the list is a square number?

[1 mark]

Answer _____



- 5 The only animals on a farm are 30 cows and 80 sheep.

$\frac{1}{5}$ of the 30 cows are sold

and

$\frac{5}{8}$ of the 80 sheep are sold.

Work out the **total** number of animals that are sold.

[3 marks]

Answer _____

- 6 Use $8 \text{ km/h} = 5 \text{ mph}$ to convert 96 km/h to mph

[2 marks]

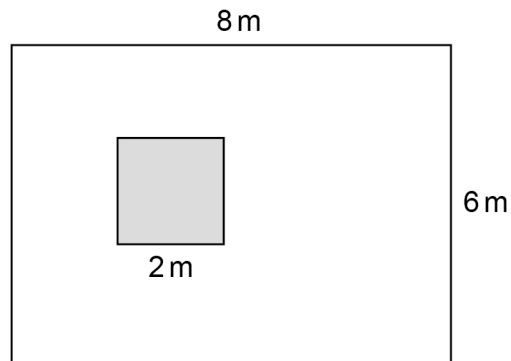
Answer _____ mph



7

A rectangular carpet measures 8 m by 6 m

Part of the carpet is covered by a square rug of length 2 m



Not drawn
accurately

Show that $\frac{1}{12}$ of the carpet is covered by the rug.

[2 marks]

8

In a school show,

girls : boys = 1 : 1

girls who sing : girls who do not sing = 1 : 2

8 girls **sing** in the show.

How many students are in the show altogether?

[3 marks]

Answer _____

9

A fair dice has six sides, numbered 1 to 6

After it is rolled, five of the numbers can be seen.

Work out the **greatest** possible sum of the five numbers.

[2 marks]

Answer _____



10 Write 0.85 as a fraction in its simplest form.

[2 marks]

Answer _____

11 Divide 62 in the ratio 3 : 7

[3 marks]

Answer _____ and _____



[5 marks]

Answer _____



13 Work out $\frac{11}{18} - \frac{1}{3}$

[2 marks]

Answer _____

14 Write 36 as a product of prime factors.
Give your answer in index form.

[3 marks]

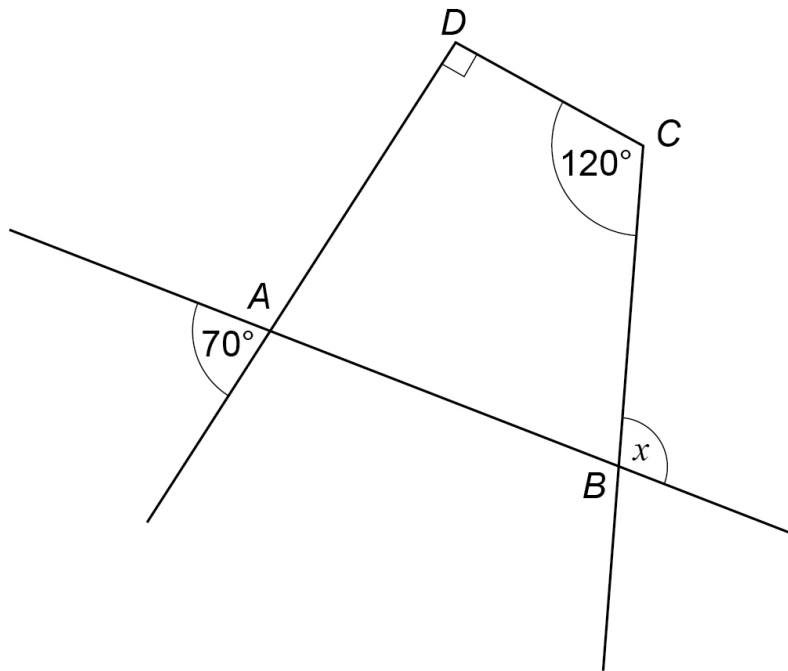
Answer _____



15

 $ABCD$ is a quadrilateral.

Sides are extended as shown.

Not drawn
accuratelyShow that $x = 100^\circ$ **[3 marks]**



16 Andrew and Bruce share some money in the ratio 5 : 6

Bruce gets £96

Andrew gives $\frac{1}{4}$ of his share to Carl.

Bruce gives $\frac{2}{3}$ of his share to Carl.

How much money does Carl receive?

[4 marks]

Answer £ _____

17 You are given that $4a - 2b = 10$

17 (a) Write down the value of $2a - b$

[1 mark]

Answer _____

17 (b) Write down the value of $2b - 4a$

[1 mark]

Answer _____

END OF QUESTIONS

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