

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

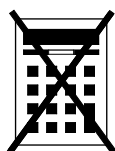
Non-Calculator Test 2

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 47.
- 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** Some gamers were asked which type of video game they preferred.

65% said Action.

19% said Role-playing.

The rest said Sports.

What percentage said Sports?

[2 marks]

Answer _____ %

- 2** Here is a calculation.

$$428 \times 30 = 12\,840$$

Use the calculation to help answer the following questions.

Write down the answer to $12\,840 \div 428$

[1 mark]

Answer _____



3 Convert 7 gallons to litres.

Use 1 gallon = 4.5 litres

[2 marks]

Answer _____ litres

4 Here are two calculations, A and B.

A	$8 \times 3 + 2$
B	$21 - (15 - 4)$

Work out answer to A $\times$ answer to B

[3 marks]

Answer _____



5 $x : y$ is $9 : 5$

Circle the value of $\frac{2x}{y}$

[1 mark]

$$\frac{5}{18}$$

$$\frac{18}{5}$$

$$\frac{9}{10}$$

$$\frac{10}{9}$$

6

	Cost of 100 grams
Cereal	49p
Pasta	14p

Leah buys 400 grams of cereal and 250 grams of pasta.

Work out the **total** cost in £

[4 marks]

Answer £ _____



7

Misha recorded the main type of weather each day for **55 days**.

The pictogram shows the results for rain, snow and cloud.

Key:  = 4 days

Rain	   
Snow	  
Cloud	    
Sun	
Fog	

Sun was recorded on 1 **more** day than fog.

Complete the pictogram for the 55 days.

[4 marks]

8 Work out 65% of 300 **[3 marks]**

Answer _____

9 Solve $3x - 8 = 19$ **[2 marks]**

$x =$ _____



- 10** Nadia has £5 to buy pencils and rulers.

Prices	
Pencils	8p each
Rulers	30p each

She says,

“I will buy 15 pencils.

Then I will buy as many rulers as possible.

With my change I will buy more pencils.”

How many pencils and how many rulers does she buy?

[6 marks]

Answer _____ pencils, _____ rulers



- 11 Bag A and bag B each contain only red discs and green discs.

Bag A	Contains 28 red discs There are twice as many red discs as green discs
Bag B	Contains 20 green discs There are 3 red discs for every 5 green discs

Work out the **total** number of discs.

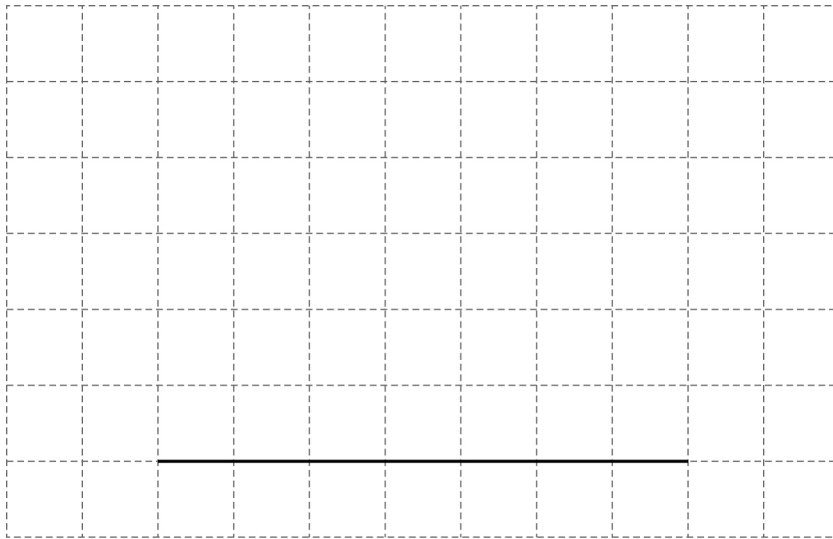
[3 marks]

Answer _____



12

One side of a rectangle is drawn on this centimetre grid.



Complete the rectangle so that it has a **perimeter** of 20 cm

[1 mark]

13

Here is a list of numbers.

14 9 20 29 3 45 33

Work out

largest number in the list $\div$ smallest number in the list

[1 mark]

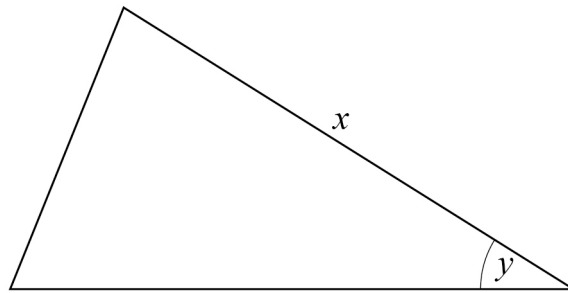
Answer

5

Turn over ►



- 14 Here is a triangle.



Measure the length of side x .
Give your answer in millimetres.

[1 mark]

$x =$ _____ mm

- 15 Write 2×10^3 as an ordinary number.

[1 mark]

Answer _____

16 Here is a list of numbers.

5 6 1 3 5 5 8 4 2 2

16 (a) Work out the median.

[2 marks]

Answer _____

16 (b) Work out the mean.

[2 marks]

Answer _____



- 17 A football team has P points.

$$P = 3W + D$$

W is the number of wins

D is the number of draws

A team has 6 wins and 2 draws.

How many points does the team have?

[1 mark]

Answer _____

- 18 By rounding each number to the nearest 10,

estimate the answer to $\frac{61 \times 47}{102}$

You **must** show your working.

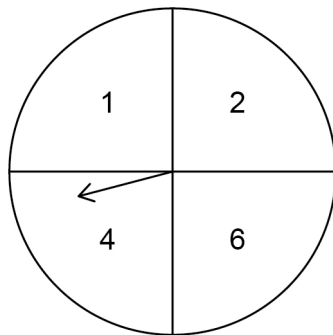
[2 marks]

Answer _____

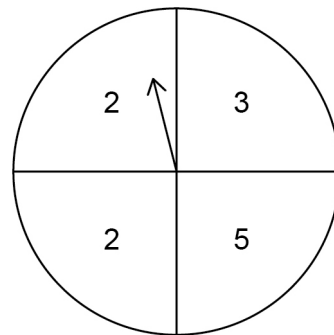


- 19 In a game, two fair spinners are spun.

Spinner A



Spinner B



If the numbers the arrows land on are different, the score is the **higher** number.

If the numbers the arrows land on are the same, the score is 0

- 19 (a) Complete the table to show the possible scores.

[2 marks]

		Spinner B			
		2	2	3	5
Spinner A	1	2			
	2		0		
	4				
	6				

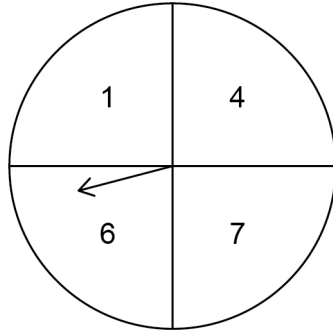
- 19 (b) Write down the probability that the score is an **odd** number.

[1 mark]

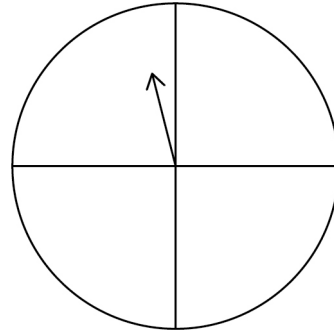
Answer _____

- 19 (c)** The same game is played using spinners C and D.
The numbers on C are shown.

Spinner C



Spinner D



The table shows some of the possible scores.

		Spinner D			
Spinner C	1	4			
	4		0		
	6				
	7			0	8

Write the missing numbers on spinner D.

[2 marks]

2

END OF QUESTIONS

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