Year 7 mathematics test **Paper 2** Calculator allowed

Please read this page, but do not open your booklet until your teacher tells you to start. Write your name and the name of your school in the spaces below.

First name	
Last name	
School	

Remember

Ma

YEAR

LEVELS

2004

- The test is 45 minutes long.
- You may use a calculator for any question in this test.
- You will need: pen, pencil, rubber, ruler, tracing paper and a mirror (optional) and a calculator.
- This test starts with easier questions.
- Try to answer all the questions.
- Write all your answers and working on the test paper do not use any rough paper. Marks may be awarded for working.
- Check your work carefully.
- Ask your teacher if you are not sure what to do.

For marker's use only

Total marks

Instructions

Answers

This means write down your answer or show your working and write down your answer.

Calculators



You **may** use a calculator to answer any question in this test.



The table shows some information about some teachers in a school.

Name	Male or Female?	Tutor for which year group?	Maths teacher?	Science teacher?
Mr Brooks	male	year 7	yes	no
Miss Jones	female	year 9	no	yes
Mrs Patel	female	year 7	yes	yes
Dr Rawley	female	year 8	yes	no
Mr Williams	male	year 11	no	yes

Which female teacher teaches maths but not science?

1 mark

3

(a) Carl has 4 coins. Altogether he has 25p What coins could Carl have?
(b) Mary has 5 coins. Altogether she has £1.25 Mary does not have any £1 coins. What coins could Mary have?

. . . . 1 mark

. 1 mark

5 (a) About how much does a **new-born baby** weigh?

Tick (\checkmark) the correct answer.



. . . . 1 mark

(b) About how much milk does a **baby's bottle** hold?
 Tick (✓) the correct answer.

N	3	millilitres	
	300	millilitres	
	3	litres	
	300	litres	

. . . . 1 mark

. 1 mark

. 1 mark

A shop sells T-shirts and vests.





.

.

l have **£20**

(a) How many T-shirts could I buy with £20?



(c) I buy two T-shirts and two vests.How much change should I get from £20?

£	2 marks

. 1 mark



0.07 is the same as 7 <u>hundredths</u> 0.7 is the same as 7





(a) Explain why the shape is a **hexagon**.

(b) What is the area of the hexagon?

ß	
Ø	cm^2
	 UIII

. . . . 1 mark

. 1 mark

(c) On the centimetre square grid below, draw a triangle that has an area of 2cm²

N				

. . . . 1 mark



(a) Gold ribbon costs 60p for one metre. Tom has £2.40How many metres of gold ribbon can he buy?



1 mark

(b) Blue ribbon costs **40p for one metre**. Nicola buys $3\frac{1}{2}$ metres. How much does this cost?



1 mark



The chart shows the distances in miles between five cities in America.

		Chicago			
	Denver	1015	Denver		
	New York	797	1799	New York	
	Seattle	2062	1329	2864	Seattle
N	/ashington	701	1686	228	2769

Use the chart to answer these questions.

(a) It is 1686 miles from Washington to Denver.How many miles is it from Washington to Chicago?



1 mark

(b) Which two cities have the greatest distance between them?



(c) To change miles to kilometres use this rule:



How many **kilometres** is it from **New York to Washington**?

kilometres

1 mark

13 (a)	Look at these angles.	
	Write the letter of the smallest angle.	
(b)	New look at these angles. They are drown on a square grid	1 mark
(d)	Now look at these angles. They are drawn on a square grid.	
	Ali says the angles are not the same size.	
	Is he correct? Tick (✓) Yes or No.	
N	Yes No	
	Explain your answer.	
		 1 mark

3.5

. . . . 1 mark

. 1 mark

. . . . 1 mark

4)	Three pupils answered different questions. This is what each pupil's calculator showed:
		3.5
	(a)	Asim's question was about money .
		Complete the sentence:
		3.5 means £3 and pence.
	(b)	Ben's question was about time .
		Complete the sentence:
		3.5 means 3 hours and minutes.
	(c)	Charlie's question was about length .
	1 - 1	

Complete the sentence:



3.5 means 3 metres and centimetres.



16 Three pupils weighed their school bags.

The bar chart shows the results for two of the pupils.



(a) Rita's bag weighed 2.5 kg

Draw a bar on the chart to show the weight of Rita's bag.

. 1 mark

(b) How much did the 3 bags weigh altogether?

	kg	 1 mark
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All the shapes in this question are made from nine squares.

This shape will look the **same** when it is **turned** through **two right angles**.



Which shapes below will look the same when they are turned through two right angles?

Tick (\checkmark) the ones that do. Cross (\mathbf{x}) the ones that do not.



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. 2 marks



(a) Alice is 18 years old.

Explain why Alice cannot fill in this part of the questionnaire.

(b) Change the questionnaire so that everyone can fill it in.

How old are you?	
less than 18 years old	1 mark



. . . . 1 mark END OF TEST

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