# Ma

KEY STAGE

124

# Year 7 mathematics test

# Paper 2

# Calculator allowed

First name			
Last name			
Class			
Date			

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

### Remember

- The test is 45 minutes long.
- You may use a calculator for any question in this test.
- You will need: pen, pencil, rubber, ruler 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 marking
	use only
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# Instructions

#### **Answers**



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

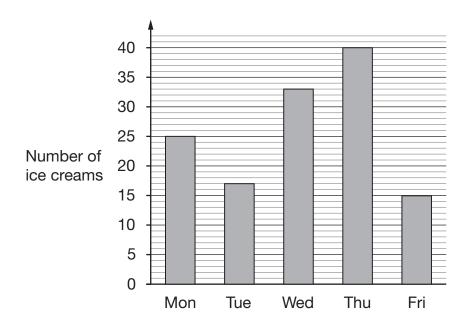
#### **Calculators**



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

In the summer, Mina sells ice creams in the park.

The bar chart shows the number of ice creams she sold on five days.



(a) On which day did she sell fewest ice creams?



1 mark

(b) How many ice creams did she sell on **Tuesday**?



1 mark

(c) She sold more ice creams on **Wednesday** than on **Monday**.
How many more?



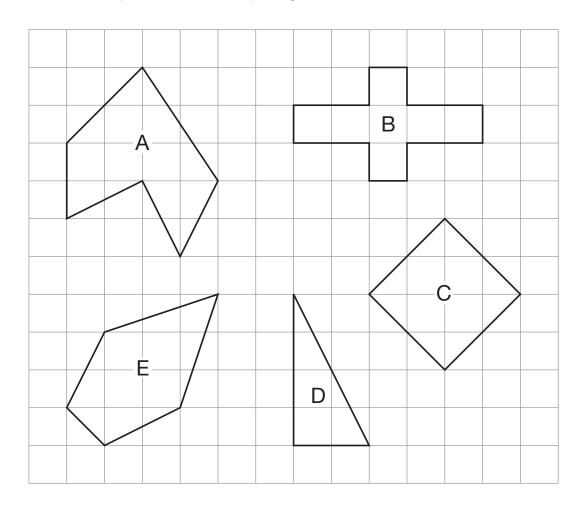
Write **exactly three coins** that make each amount of money below.

The first one is done for you.

amount of money		coins	
40p	20p	10p	10p
80p			
£1.20			
£1.60			

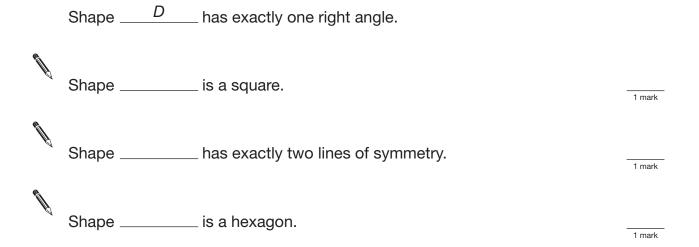
2 marks

Look at the shapes drawn on a square grid.



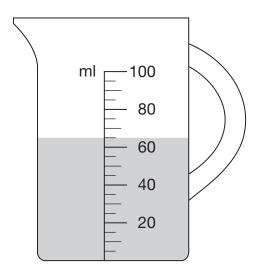
Complete the sentences below by writing the correct letter.

One is done for you.



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# How many millilitres of water are in the jug?





5

The table below shows the times of some exercise classes at a sports centre.

Start time	Monday	Tuesday	Wednesday	Thursday	Friday
11:00		Body Tone 45 minutes	Step Class 60 minutes		
11:30				Aerobics 30 minutes	
12:00	Yoga 45 minutes				
12:30	Body Tone 30 minutes		Keep Fit 45 minutes		Yoga 90 minutes
13:00		Keep Fit 60 minutes			
13:30	Step Class 60 minutes				Keep Fit 60 minutes
14:00			Yoga 90 minutes	Body Tone 45 minutes	

(a)	On which	days are	there Ster	Classes?

` <u> </u>	and	_
		1 mark

(b) On Tuesday, what time does Keep Fit **start**?



1 mark

(c) On Wednesday, what time does Yoga end?





Tom goes shopping.

This is what he buys.



£1.79



£2.80



£7.65

Tom pays with a £20 note.

How much change should he get?

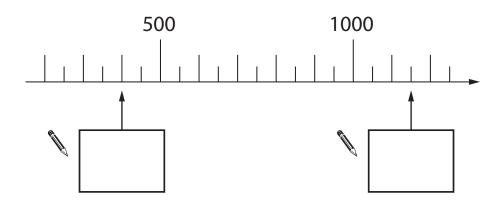


£

2 marks

Look at the number line below.

Write the missing numbers in the boxes.



1 mark

1 mark

8 Round these amounts of money to the nearest pound.

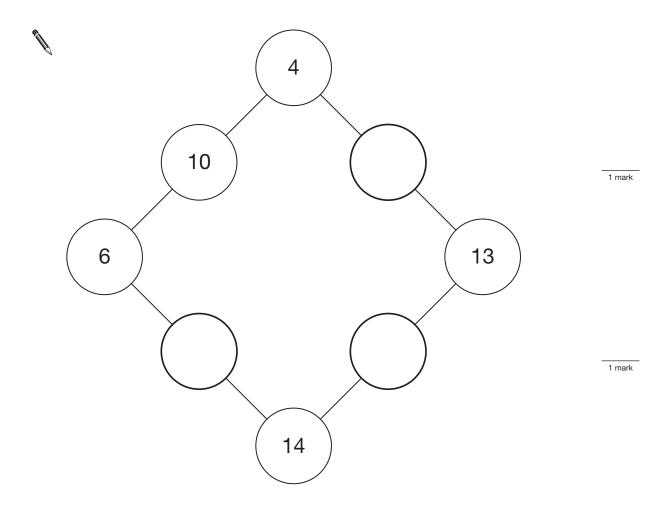
The first one is done for you.

amount	to the nearest pound
£3.20	£3.00
£6.49	£
£9.81	£
£50.75	£

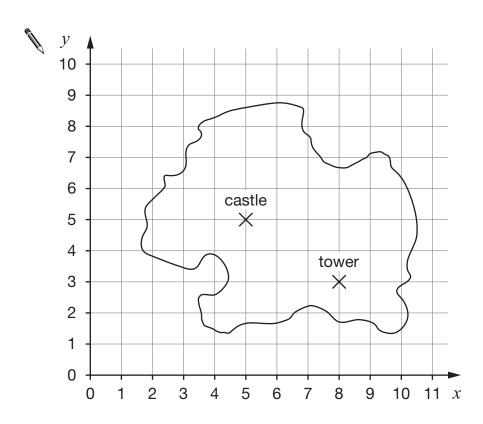
2 marks

## Each side of this number square adds to 20

Write the missing numbers.

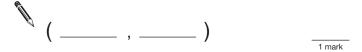


Look at this map of an island drawn on a square grid.



(a) The coordinates of the castle are (5, 5)

Write the coordinates of the tower.



(b) There is a boat at (3, 0)

Mark this point on the grid with a cross.

Tom sells different coloured tickets for a raffle.

The table below shows the tickets he sells.

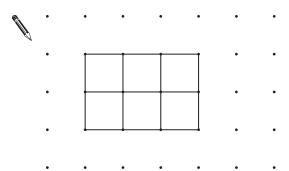
colour of ticket	number sold
red	20
yellow	30
blue	50
white	100

The winning ticket is chosen at random.

Write the correct **colours** to complete the sentences.

It is more likely to be a <b>yellow</b> ticket than a $\_$	ticket.	1 mark
It is <b>half</b> as likely to be a	ticket as a <b>white</b> ticket.	1 mark
There is an <b>even</b> chance it will be a	ticket.	1 mark

(a) **Shade one third** of this shape.



1 mark

(b) The square grid below shows **part of a shape**.

One-third of the shape has been shaded.

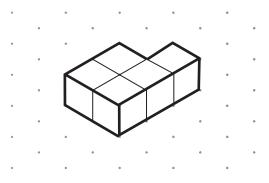
Draw lines to complete the shape.



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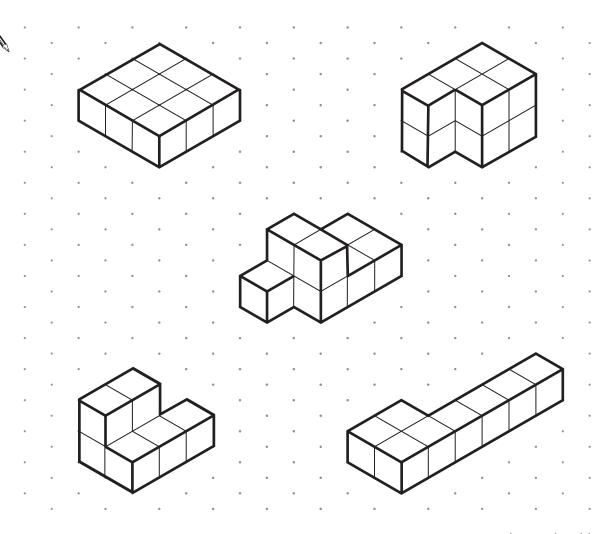
Erin makes this shape with 5 cubes.



Isometric grid

Then she adds **2 more** cubes to the shape.

Tick  $(\checkmark)$  the diagram that could show her new shape.



Isometric grid

1 mark

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Here are four number cards.

4

2

3

6

(a) Use all four cards to make an **odd** number that is **greater than 3000** 



1 mark

(b) Mina says:

'I can use all four cards to make an **odd** number that is **greater than 3000** but **smaller than 4000**'

Is she correct?



Yes

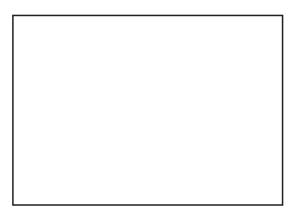


Explain your answer.



Look at t

### Look at the rectangle.



Measure accurately the length of a diagonal of this rectangle.



1 mark

16

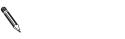
Erin thought of a number.

She added 15 to her number.

Then she multiplied the result by 4

The answer was 164

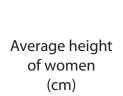
What was Erin's number?

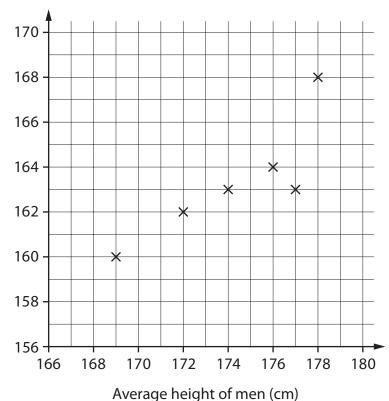


17

The diagram shows average heights of men and women in six different countries.







(a) In one country the average height of **men** is **172cm**.

What is the average height of women in this country?

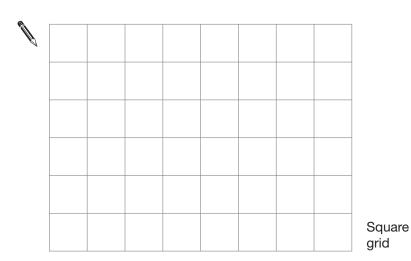


1 mark

(b) In another country the average height of **men** is **12cm more** than the average height of **women**.

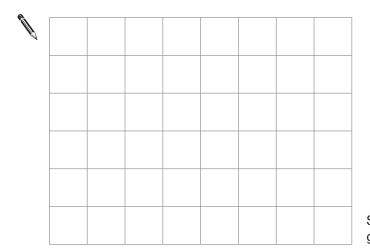
On the graph, put a ring round the cross for this country.

- 18 (a) Draw a four-sided shape that has two pairs of parallel sides.



1 mark

(b) Draw a **five-sided** shape that has **only one pair** of parallel sides.



Square grid

One tin holds 2.5 litres of paint.



I need 20 litres of paint.

How many of these tins should I buy?



Look at this equation.

$$y = x + 9$$

(a) When x = 17, what is the value of y?

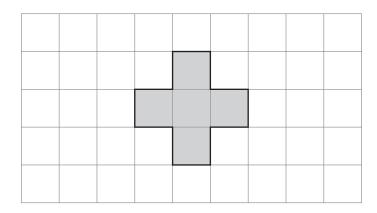


1 mark

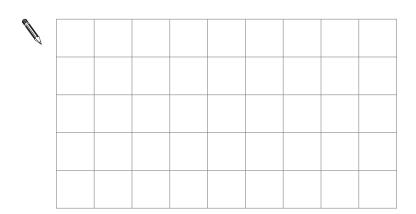
(b) When y = 17, what is the value of x?



Tom uses 5 squares to make this shape on a centimetre square grid.



On the centimetre square grid below draw a different shape. It **must** have a **smaller perimeter** than Tom's shape but the **same area**.



**END OF TEST** 

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