Ma

YEAR 7

3-4

2006

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

- 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

Borderline check

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.

Look at the table.

Name	Male/Female	Age (years)	Height (cm)
Alice	female	36	155
Frank	male	54	175
Gina	female	42	168
Milly	female	16	162
Rani	male	24	178

Use the table to answer the questions.

(a) What is the **name** of the oldest person?



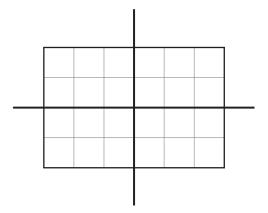
1 mark

(b) What is the **height** of the tallest female?

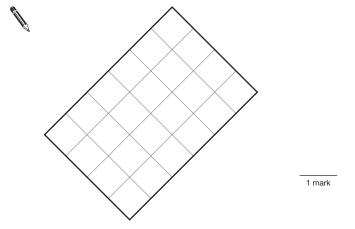


cm

A rectangle has **two** lines of symmetry.

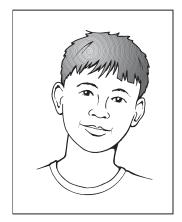


Now, draw the two lines of symmetry on this rectangle.



3	(a)	Tick (√) the continuous of the	correct box to show about h	ow long a car is.	
				4 millimetres	4 centimetres	
				4 metres	4 kilometres	1 mark
	(b)	Tick (\checkmark) the α	correct box to show the terr	perature in a freezer.	
				180°C	-18°C	
				18°C	1.8°C	1 mark
	(c)	Tick (√) the of t	correct box to show about h	ow much a cat weighs .	
				3 grams	30 kilograms	
				30 grams	3 kilograms	1 mark

Tim, his mother and his grandmother all have their birthday on the same day.



Tim 12 years old



Tim's mother 37 years old



Tim's grandmother 70 years old

(a) When Tim was born, how old was Tim's grandmother?



1 mark

(b) When Tim's mother is 60 years old, how old will Tim be?



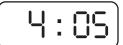


The time on a digital clock is 2:45

What time will the digital clock show one and a half hours later?

Tick (\checkmark) the correct time below.









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	6	
	U	
Λ.		

Sara drew this pictogram to show the average number of hours animals sleep each day.

Key: Stands for 2 hours

Bat	$\Diamond \Diamond $
Gorilla	$\Diamond \Diamond \Diamond \Diamond \Diamond \Diamond$
Horse	$\Diamond \Diamond$
Human	$\Diamond \Diamond \Diamond \Diamond$
Mouse	$\Diamond\Diamond\Diamond\Diamond\Diamond\Diamond\Diamond\Diamond$

(a) Which animal sleeps for a **shorter** time each day **than a human**?



1 mark

(b) A bat sleeps for longer each day than a mouse.

How many hours longer?



houre

1 mark

(c) Now Dave draws another pictogram to show the same information.

Here is Dave's key:



stands for 3 hours

How many circles show the number of hours that a gorilla sleeps each day?



8

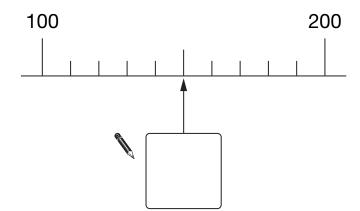
____ circles

7 (a) The first **odd** number is 1
What is the **sixth** odd number?

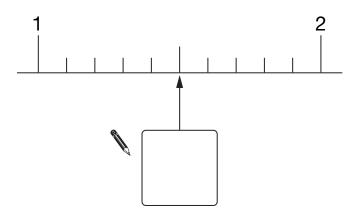
(b) The first **five** odd numbers add up to 25
What do the first **six** odd numbers add up to?

_____ 1 mark

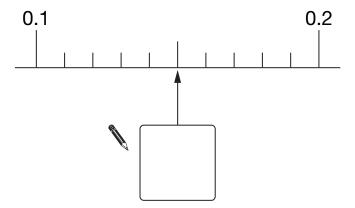
What number does the arrow show on each number line below?



1 mark



1 mark



Here is a grid with some numbers shaded.

1	2	3	4
5	6	7	8
9	10	11	12

The grid continues.

Will the number 35 be shaded?

M.

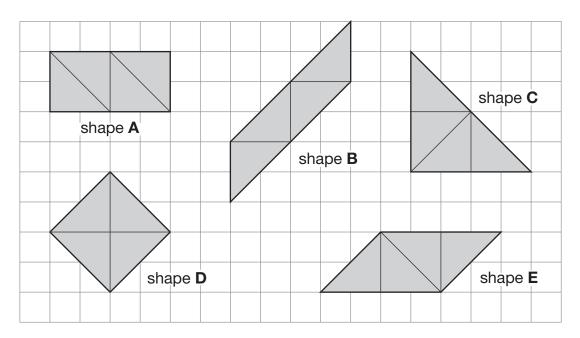
Ye

|--|

Explain your answer.

Joe makes different shapes using four tiles each time.

The square grid shows the different shapes he makes.



(a) Which shape is a square ? Write its letter.	shape	1 mark
(b) Which shape is not a quadrilateral ? Write its letter.	shape	1 mark
(c) Joe says: The shape with the big	ggest area is shape C.	
Is Joe correct? Yes No		
Explain your answer.		

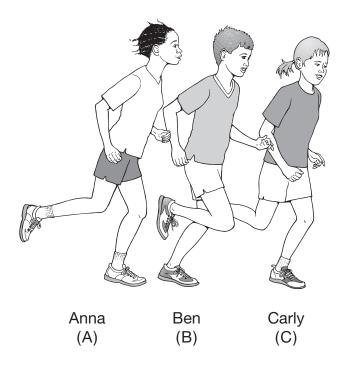
1	(a)	In the number 4378 , the figure 7 represent?	esents 7 tens .
		What does the figure 4 represent?	

1 mark

(b) Write in figures the number **twenty thousand and twenty**.



Anna, Ben and Carly are running a race.



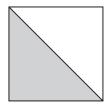
Complete the table to show the **different orders** in which they could finish.

One order is done for you.

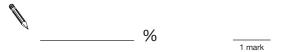
1st	2nd	3rd
А	В	С

2 marks

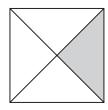
- 13 (a) Half of this square is shaded.



What **percentage** of the square is shaded?



(b) What **percentage** of this square is shaded?





(a) Write numbers to complete the table below.

	Number of faces that are rectangles	Number of faces that are triangles	
cuboid			
triangular prism			
			1 mark

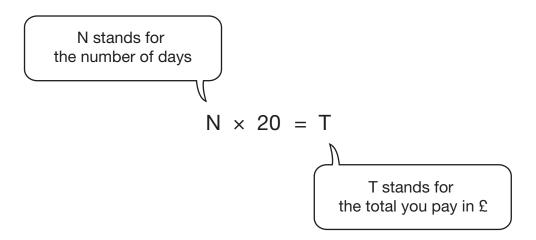
(b) A different shape has five faces.

Four of the faces are triangles. One face is a square.

Write the name of this shape.



The equation shows how much you pay to hire a car.



(a) Leena hires the car for 10 days.

How much must she pay?



(b) Later, Tom pays £280 to hire the car.

For **how many days** does he hire the car?



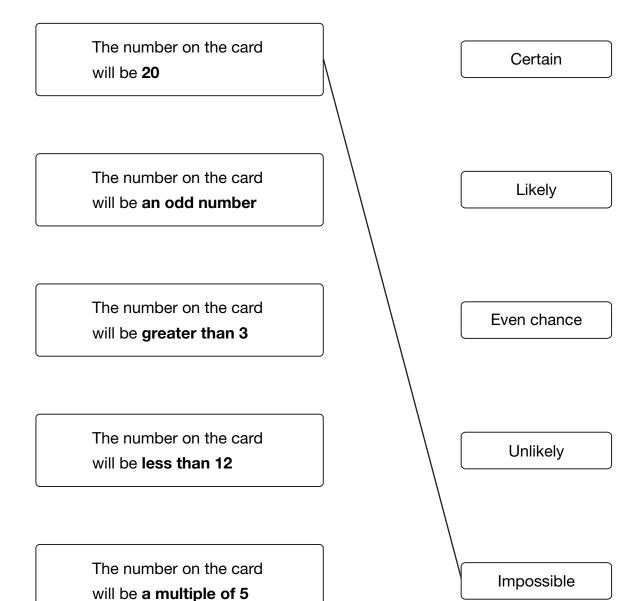
I have ten number cards, numbered 1 to 10

I am going to take a card at random.

Match each sentence below to a correct description of its probability.

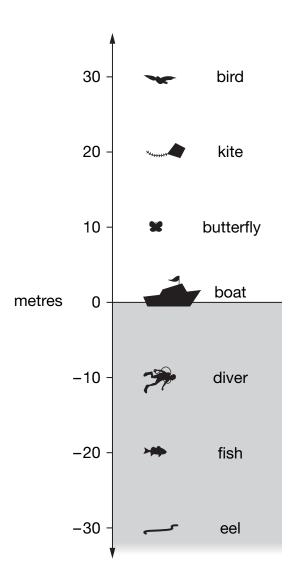
The first one is done for you.





2 marks

The diagram shows what is above and below sea level.



(a) What is about 50m lower than the bird?



1 mark

(b) An **octopus** is at about **-40m**.

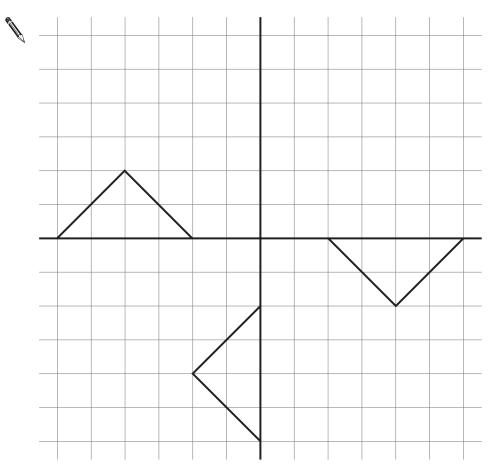
About how many metres higher is the diver than the octopus?

19



The pattern below is not finished.

Draw one more **triangle** so that the pattern looks the **same** when it is **rotated** through one or more right angles.



Square grid

2 marks

The tables below show the number of days in each month in the year 2006.

January	31
February	28
March	31
April	30
May	31
June	30

July	31				
August	31				
September	30				
October	31				
November	30				
December	31				

(a) For the statement below, tick (\checkmark) True or False.

The mode	of the	number	of	davs	in	а	month	is	31	
THE IIICAC	OI LIIC	HUHHDCI	Oi	uays	1111	ч	111011111	13	O I	í.

True

False

Explain your answer.

(b) There are **more** days in the **second six months of the year** than in the first six months.

How many more?



END OF TEST

END OF TEST

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