

YEAR

LEVELS 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	Total marks	
	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.

1 mark

1 mark

Look at the table.

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

Use the table to answer the questions.

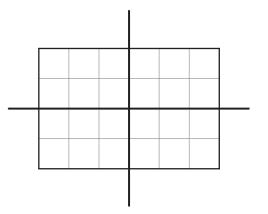
(a) What is the name of the oldest person?

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

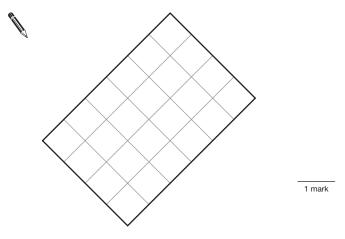
\_ cm

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

2



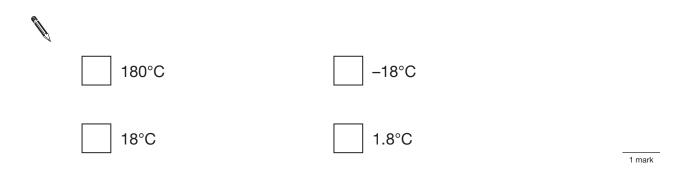
Now, draw the two lines of symmetry on this rectangle.



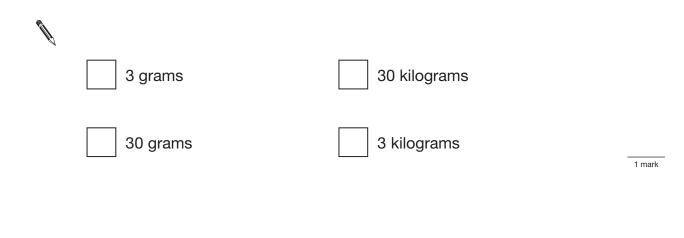
1 mark

3 (a) Tick (✓) the correct box to show about how long a car is.
4 millimetres
4 metres
4 metres
4 kilometres

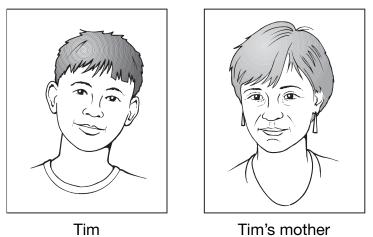
(b) Tick ( $\checkmark$ ) the correct box to show the **temperature in a freezer**.



(c) Tick ( $\checkmark$ ) the correct box to show about how much **a cat weighs**.



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



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?

·	years old	

1 mark

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

years old

1 mark

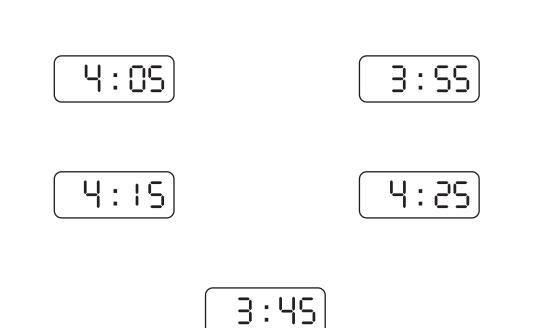
6

# The time on a digital clock is 2:45

5

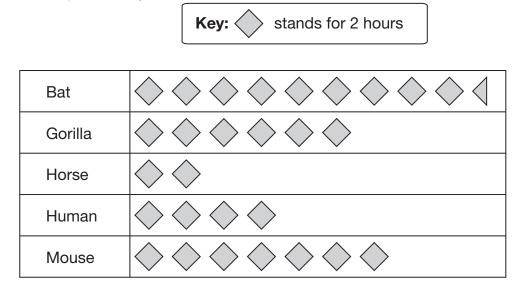
Ø

What time will the digital clock show **one and a half hours** later? Tick ( $\checkmark$ ) the correct time below.



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

6



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

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

How many hours longer?

Ø	
	hours

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



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

Here is Dave's key:

circles

1 mark

1 mark

7

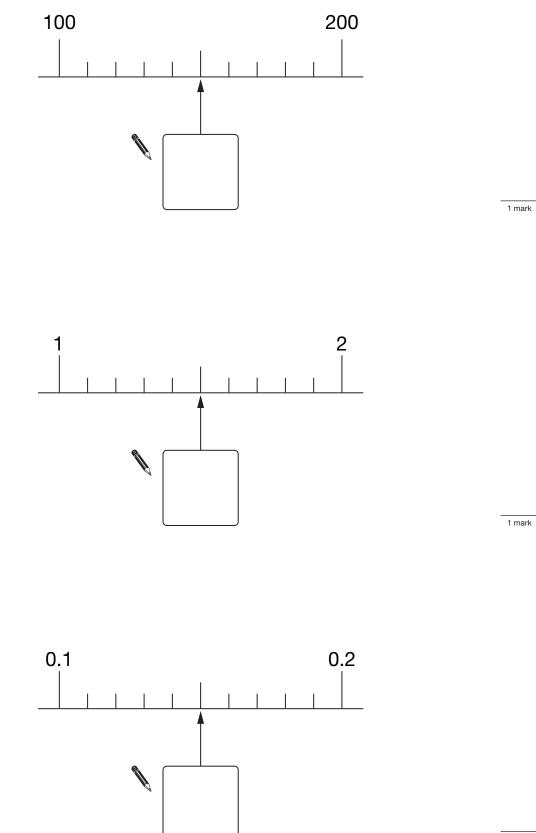
(a) The first **odd** number is 1

What is the **sixth** odd number?

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

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

8



Here is a grid with some numbers shaded.

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

The grid continues.

9

Will the number 35 be shaded?

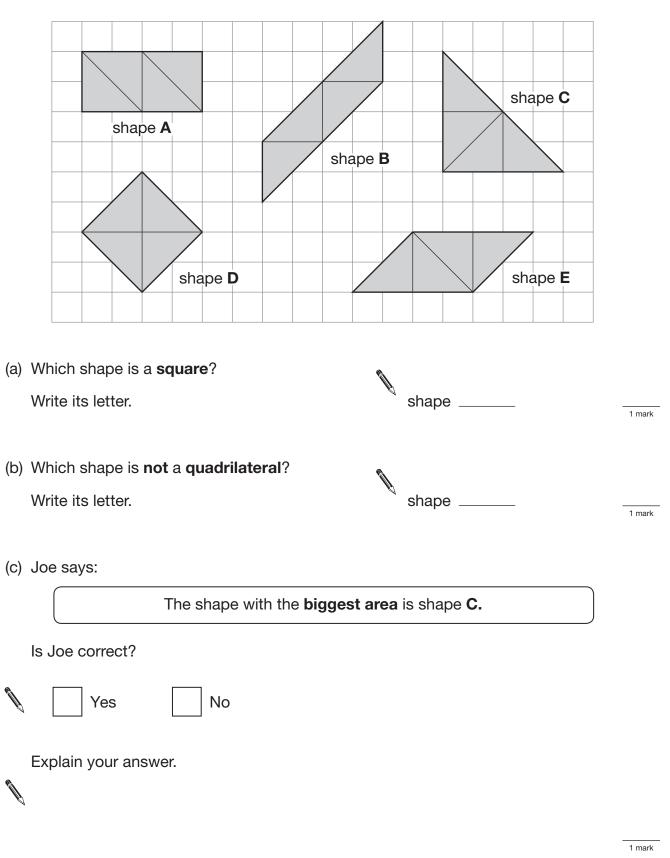


Explain your answer.

### Joe makes different shapes using four tiles each time.

10

The square grid shows the different shapes he makes.



1 mark

<b>11</b> (a)	In the number <b>4378</b> , the figure 7 represents 7 <b>tens</b> .
	What does the figure <b>3</b> represent?

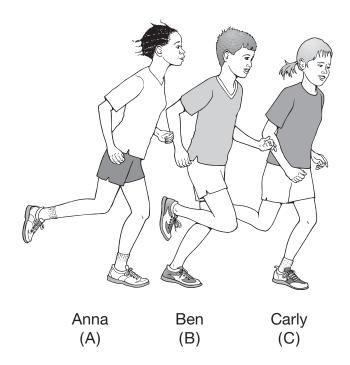
What does the figure 4 represent?

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

Ø 1 mark

Anna, Ben and Carly are running a race.

12



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

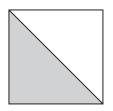
One order is done for you.

1st	2nd	3rd
A	В	С

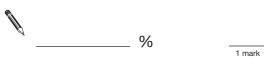
2 marks



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



What percentage of the square is shaded?

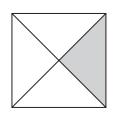


%

1 mark

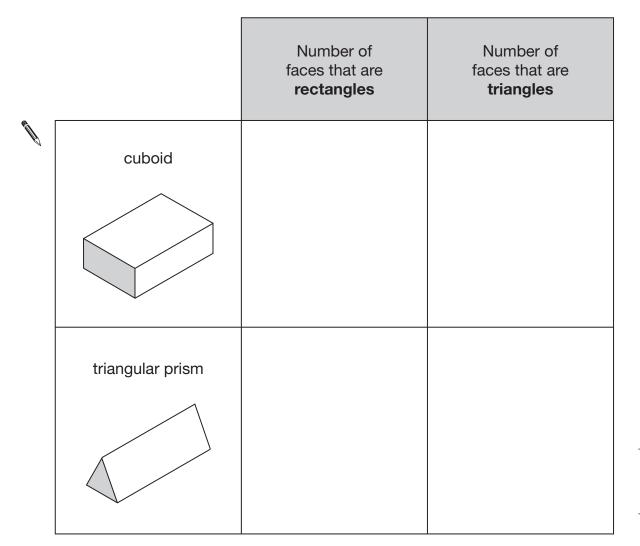
N

(b) What percentage of this square is shaded?



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(a) Write numbers to complete the table below.



1 mark

1 mark

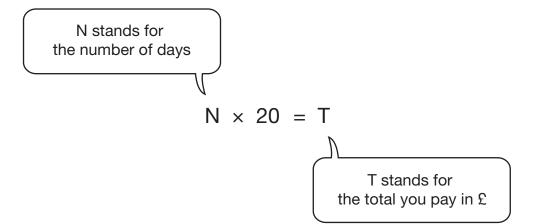
(b) A different shape has five faces.

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	pav?
110 11	maon	maor	0110	puy

15

		<pre>I</pre>	£		1 mark
(b)	Later, Tom pays <b>£280</b> to hire the car.				
	For how many days does he hire the car?				
		N		dava	
				days	1 mark

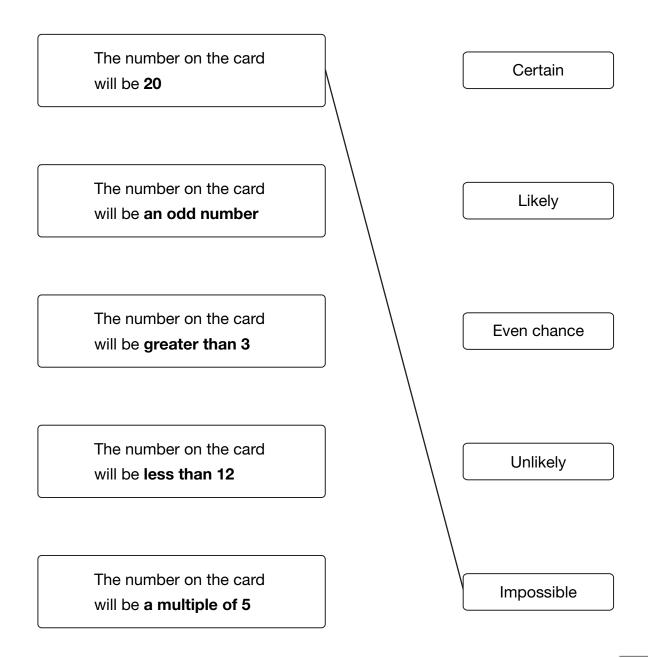
I have ten number cards, numbered 1 to 10

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.

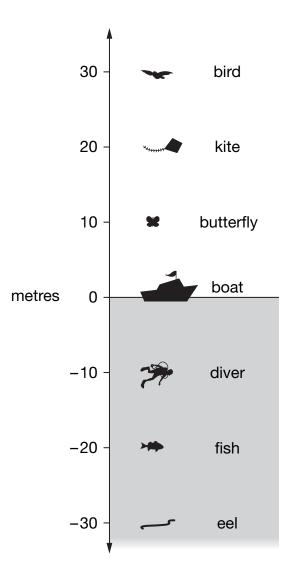
16



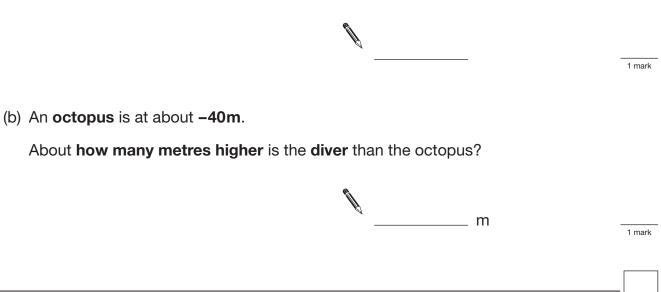
2 marks

The diagram shows what is above and below sea level.

17



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

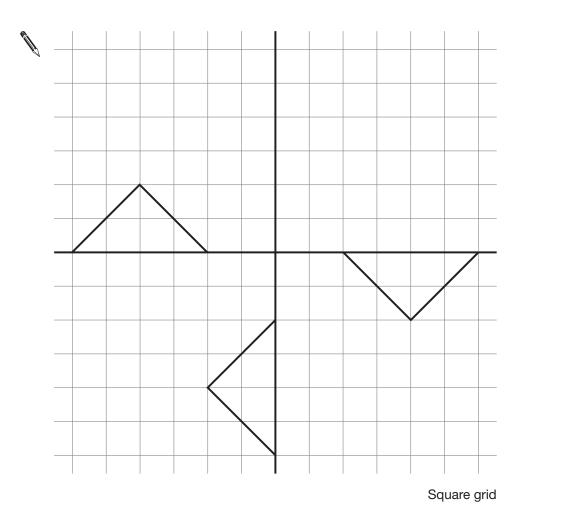


2 marks

# The pattern below is not finished.

18

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



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

January	31	July	31
February	28	August	31
March	31	September	30
April	30	October	31
May	31	November	30
June	30	December	31

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

	The <b>mode</b> of the number of days in a month is <b>31</b>				
N	True False				
Ŵ	Explain your answer.				
		1 mark			
(b) There are <b>more</b> days in the <b>second six months of the year</b> than in the first six months.					
	How many more?				
		1 mark			

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END OF TEST

END OF TEST

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