

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.

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?

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

Ø _ cm

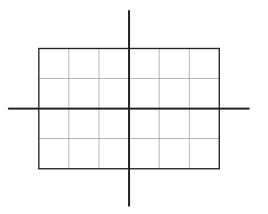
1 mark

1 mark

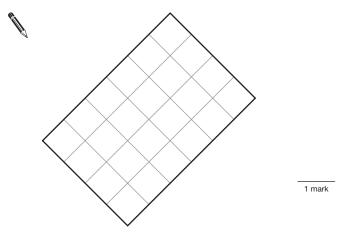
Sourced from SATs-Papers.co.uk

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

2



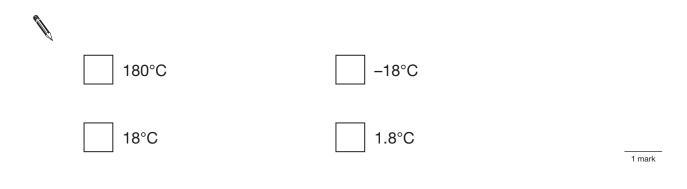
Now, draw the two lines of symmetry on this rectangle.



1 mark

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

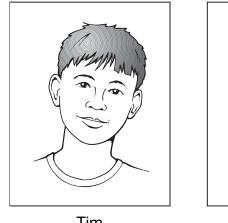
(b) Tick (\checkmark) the correct box to show the **temperature in a freezer**.



(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.



Tim 12 years old



Tim's mother 37 years old

| and the second s |
|--|
| |

Tim's grandmother 70 years old

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

| <pre>I</pre> | |
|--------------|-----------|
| · | years old |

1 mark

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

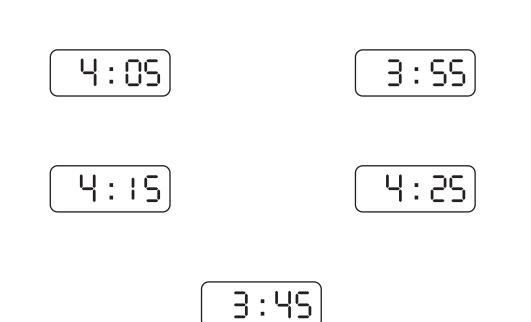
| Ø | |
|-----|-----------|
| · _ | years old |

The time on a digital clock is 2:45

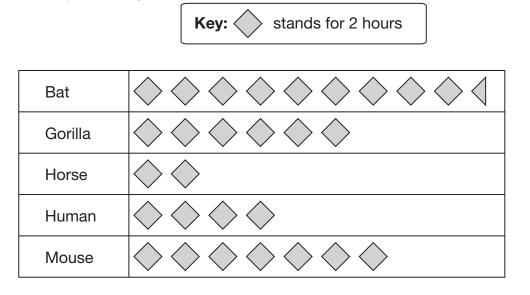
5

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.



(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?

Here is Dave's key:

| 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?

1 mark

1 mark

Sourced from SATs-Papers.co.uk

1 mark

1 mark

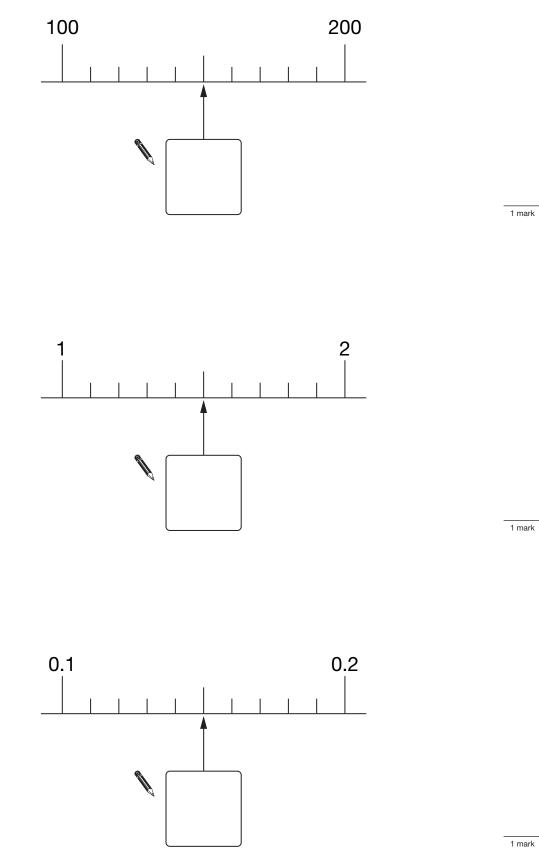
7

(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?



1 mark

Sourced from SATs-Papers.co.uk

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?



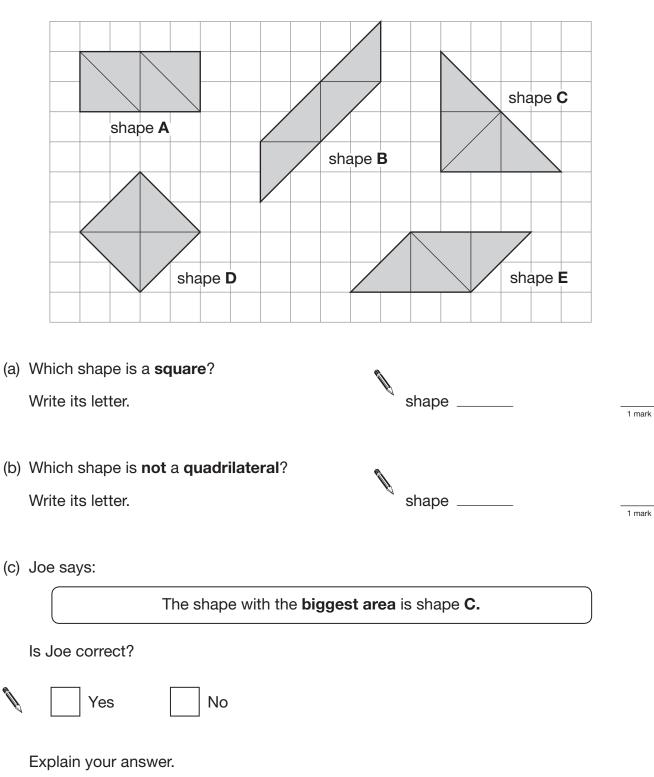
Explain your answer.

Ņ

Joe makes different shapes using four tiles each time.

10

The square grid shows the different shapes he makes.



Y7/06/Ma/Levels 3-4/P2

| 11 (a) | In the number 4378 , the figure 7 represents 7 tens . |
|--------|---|
| | What does the figure 3 represent? |
| | |
| | What does the figure 4 represent? |

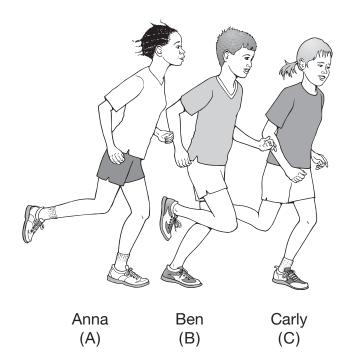
Ŵ

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

1 mark

Anna, Ben and Carly are running a race.

12



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

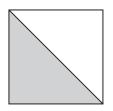
One order is done for you.

| 1st | 2nd | 3rd |
|-----|-----|-----|
| А | В | С |
| | | |
| | | |
| | | |
| | | |
| | | |

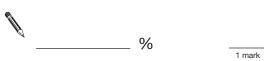
2 marks



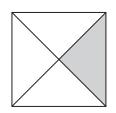
13 (a) **Half** of this square is shaded.



What percentage of the square is shaded?



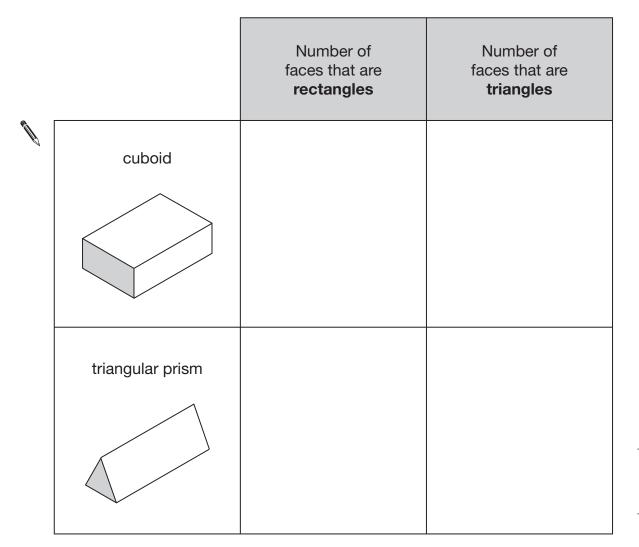
(b) What percentage of this square is shaded?



| Ø | |
|---|---|
| · | % |

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(a) Write numbers to complete the table below.



1 mark

1 mark

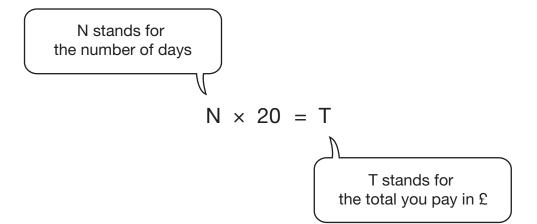
(b) A different shape has five faces.

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 | muon | muor | 0110 | puyi |

| | | | £ | | 1 mark |
|-----|--|----|---|--------|--------|
| | | | | | |
| | | | | | |
| (b) | Later, Tom pays £280 to hire the car. | | | | |
| | For how many days does he hire the car? | | | | |
| | | Ø. | | | |
| | | Ŵ | | _ days | 1 mark |

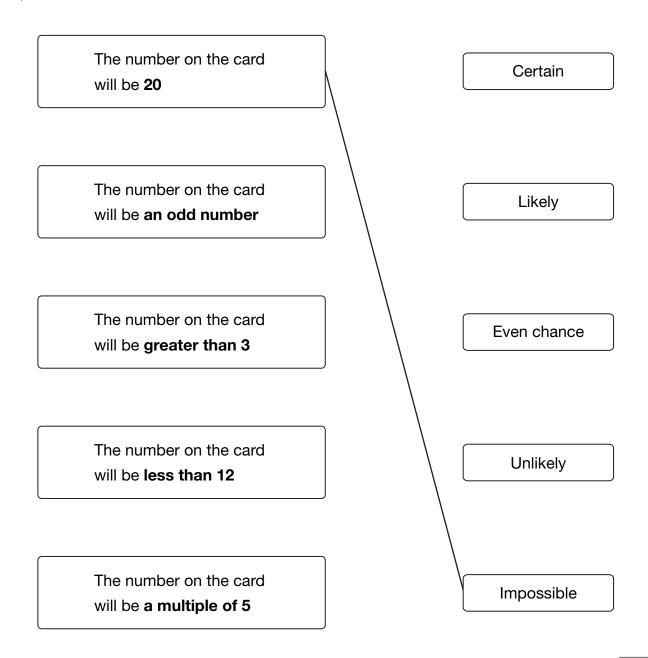
I have ten number cards, numbered 1 to 10

I am going to take a card at random.

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

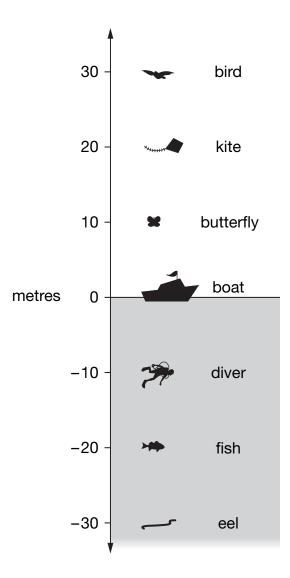
The first one is done for you.

16

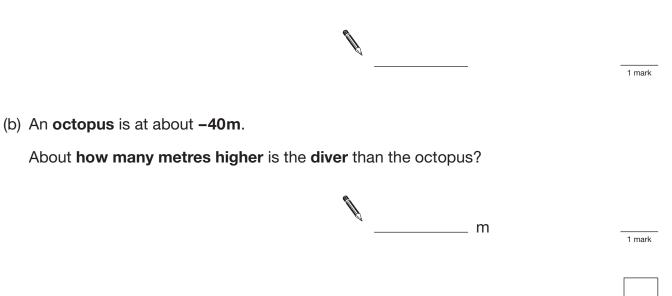


2 marks

The diagram shows what is above and below sea level.



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

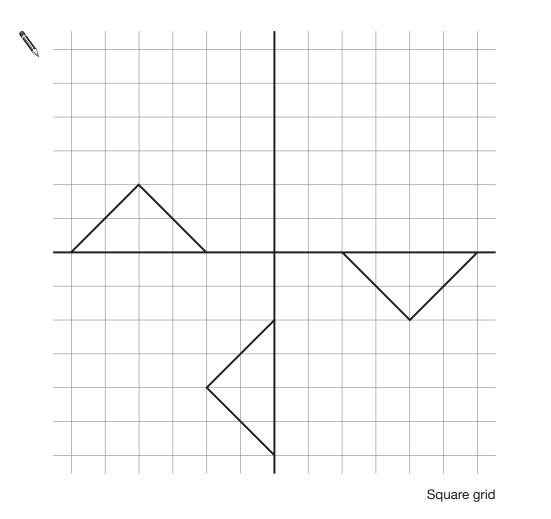


Sourced from SATs-Papers.co.uk

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.



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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 mode of the number of days in a month is 31 |) |
|-----|--|--------|
| Ø | True False | |
| | Explain your answer. | |
| | | 1 mark |
| (b) | There are more days in the second six months of the year 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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