

Ma

YEAR

7

LEVELS

3-4

2005

# 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

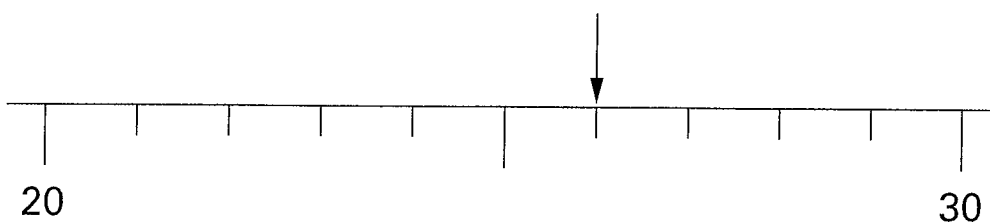
- The test is 45 minutes long.
- You **may** use a calculator for any question in this test.
- You will need: pen, pencil, rubber, ruler and a calculator.
- This test starts with easier questions.
- Try to answer all the questions.
- Write all your answers and working on the test paper – do not use any 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

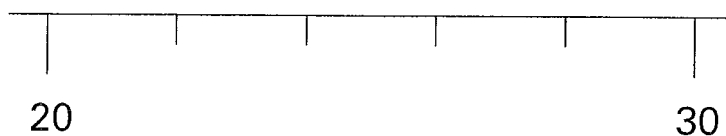
Total marks	
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1

The arrow on the number line shows the value **26**

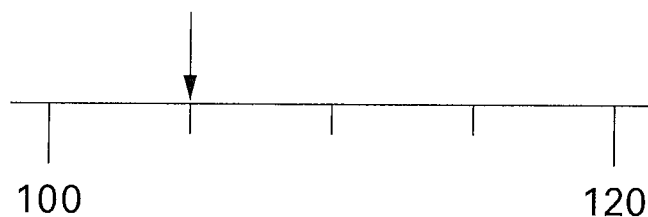


(a) Draw an arrow (↓) on this number line to show the value **26**



1 mark

(b) Now look at this number line.



What value does the arrow show?



.....

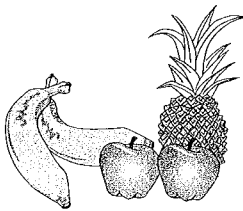



1 mark



2

John went shopping.

This is how much he spent.

 £2.60	 96p	 £1.15	 65p
--	--	---	--

Altogether, how much did John spend?



£

1 mark

3 (a) Complete the missing times.

The first one is done for you.

10 o'clock in the morning

10:00



Quarter to 7 in the morning

.....

1 mark

Quarter past 7 in the evening

.....

1 mark

(b) Complete the missing time.



.....

21:00

1 mark



4

Ben recorded the number of words in the titles of books.  
The tally chart shows his results.

Titles of books	
one word	
two words	
three words	
four words	
five words	
six or more words	

(a) How many books had titles with **four** words?

 .....

1 mark

(b) Altogether, how many books had titles with **fewer than three** words?

 .....

1 mark

(c) What was the **most common** number of words in the title?

 ..... words

1 mark

- 5 (a) Steve says there are **1000 centimetres in one metre**.

Is he correct?


☐

Yes

☐

No

Explain your answer.



1 mark

- (b) How many **millimetres** are in **one centimetre**?



..... millimetres

1 mark

- 6 A school raised £1758 for charity.

A newspaper wrote:

School raises nearly **£1800** for charity

Write the missing number in this sentence.



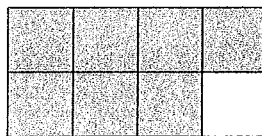
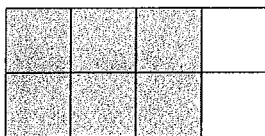
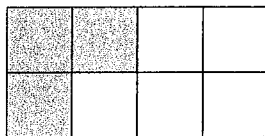
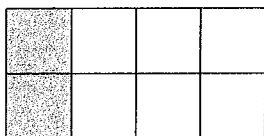
The newspaper rounded £1758 to the nearest .....

1 mark



- 7 (a) Which shape below is shaded  $\frac{3}{4}$  grey?

Put a ring round the correct one.



1 mark

- (b) Amy says:

$\frac{1}{2}$  of 20 is bigger than  $\frac{1}{4}$  of 40

Is she correct?


☐

Yes

☐

No

Explain how you know.



1 mark

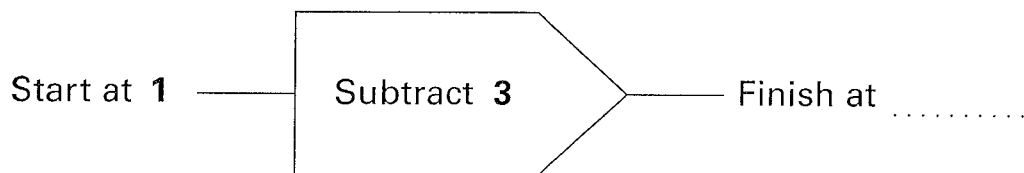
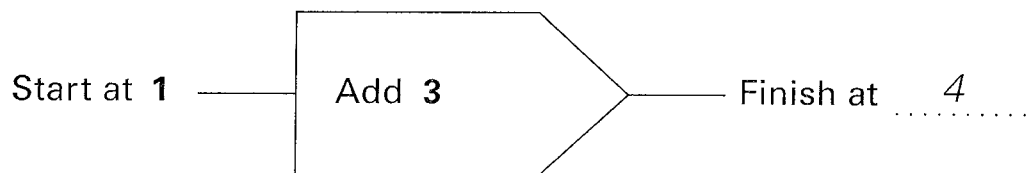
8

Here is a number line.

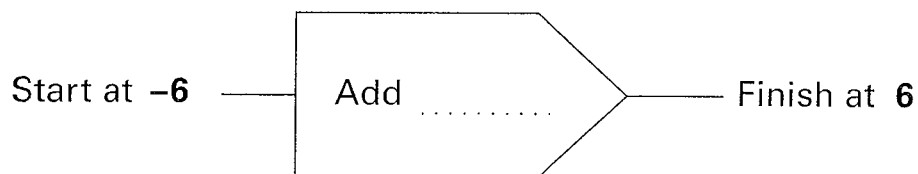


The number line can help you work out the missing numbers below.

The first one is done for you.



1 mark



1 mark





- 9 (a) Which number below is **four thousand and seven**?

Put a ring round it.



47

407

4007

40007

400007

1 mark

- (b) Write in figures the number **three million**.



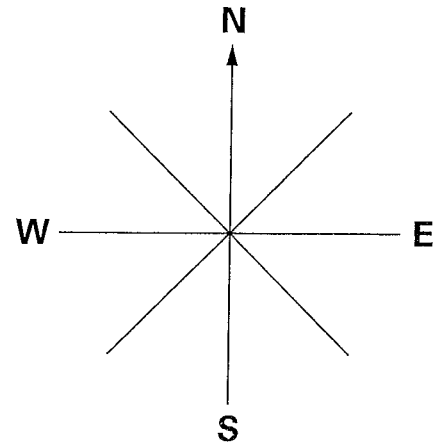
.....

1 mark

- 10** (a) Terry is facing **north**.

He turns **clockwise** through **three right angles**.

Which direction is he facing now?



.....

1 mark

- (b) Lily is facing **east**.

She turns **clockwise** through **90 degrees**.

Which direction is she facing now?



.....

1 mark

- (c) Mina is facing **west**.

She turns **clockwise** to face **north-west**.

Through how many degrees does she turn?



..... degrees

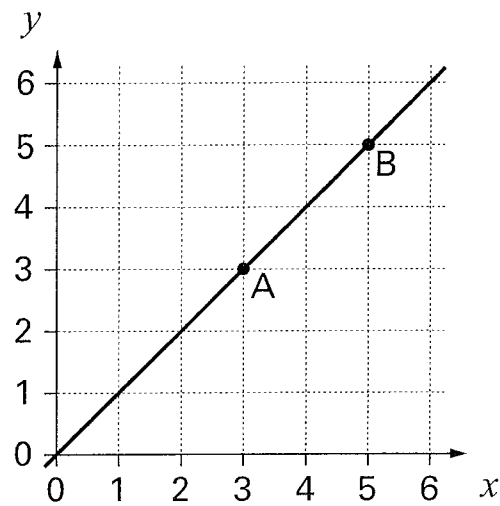
1 mark



11

Here is a line on a square grid.

Points A and B are on the line.



(a) The coordinates of point A are (3,3)

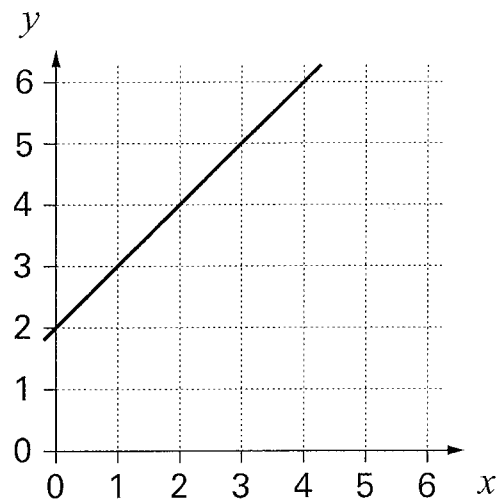
What are the coordinates of point B?



( ..... , ..... )

1 mark

(b) Here is a different line on the square grid.



Write the coordinates of any point on this line.

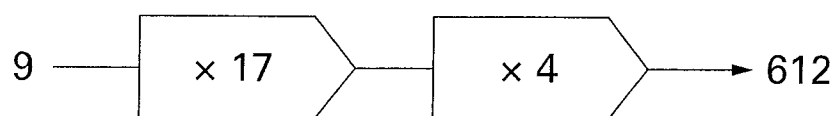


( ..... , ..... )

1 mark

12

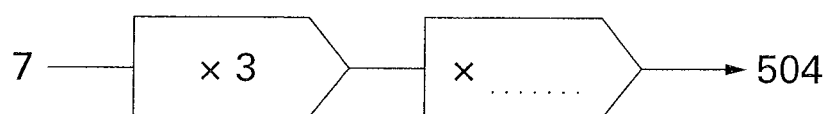
Look at this multiplying chain.



Write the missing numbers in the multiplying chains below.



1 mark



1 mark



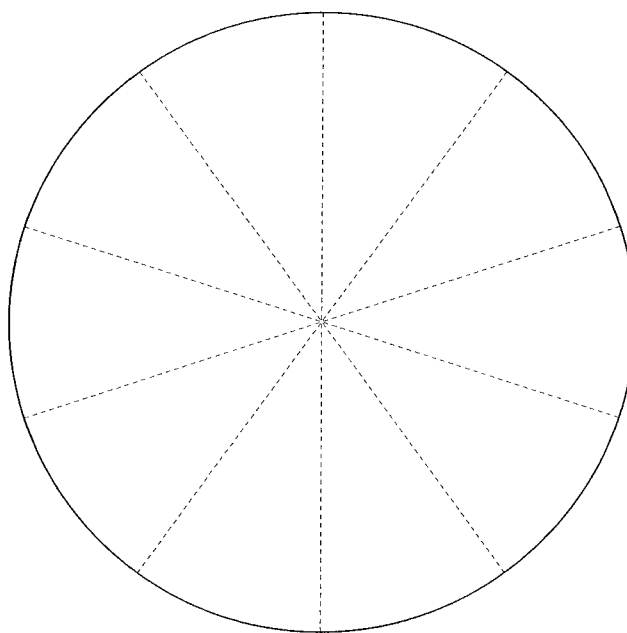
13

The table shows information about which primary school pupils went to.

Name of primary school	Ash	Burgate	Grange	Park
Percentage of pupils who went to that school	10%	40%	25%	25%

Complete the pie chart below to show the information in the table.

**Label** your pie chart with the **names** of the schools.



.....  
2 marks

- 14 (a) Sam wrote the calculation:

$$\frac{1}{4} + \frac{1}{4} = \frac{2}{8}$$

Is he correct?

☐

Yes

☐

No

Explain your answer.



1 mark

- (b) Think about the fraction  $\frac{1}{5}$

How many of them add to make 1?



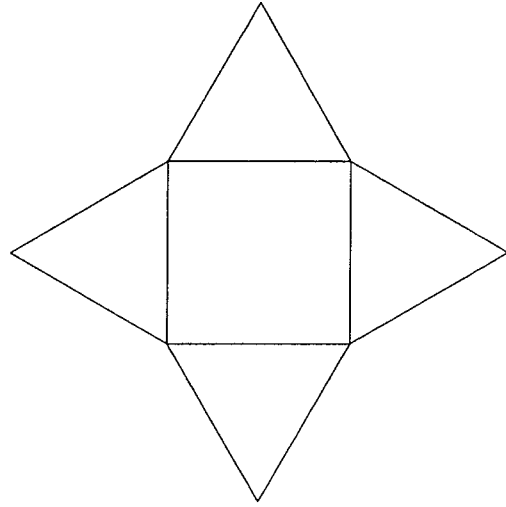
.....

1 mark



15

Here is a net of a 3-D shape.



When the net is folded, what 3-D shape will it make?

Tick (✓) the correct answer below.



Cube

Prism

Square-based  
pyramid

Triangular-based  
pyramid

Cuboid

1 mark

16

Amit says:

When you **add three odd numbers** the answer is **always even**.

Is he correct?

☐

Yes

☐

No

Explain how you know.



1 mark





17

A teacher asked each pupil in her class:

‘How many calculators do you own?’

The frequency table shows the results.

Number of calculators	Frequency
0	5
1	22
2	1

(a) How many pupils are in the class?



..... pupils

1 mark

(b) Altogether, how many calculators do the pupils in the class own?

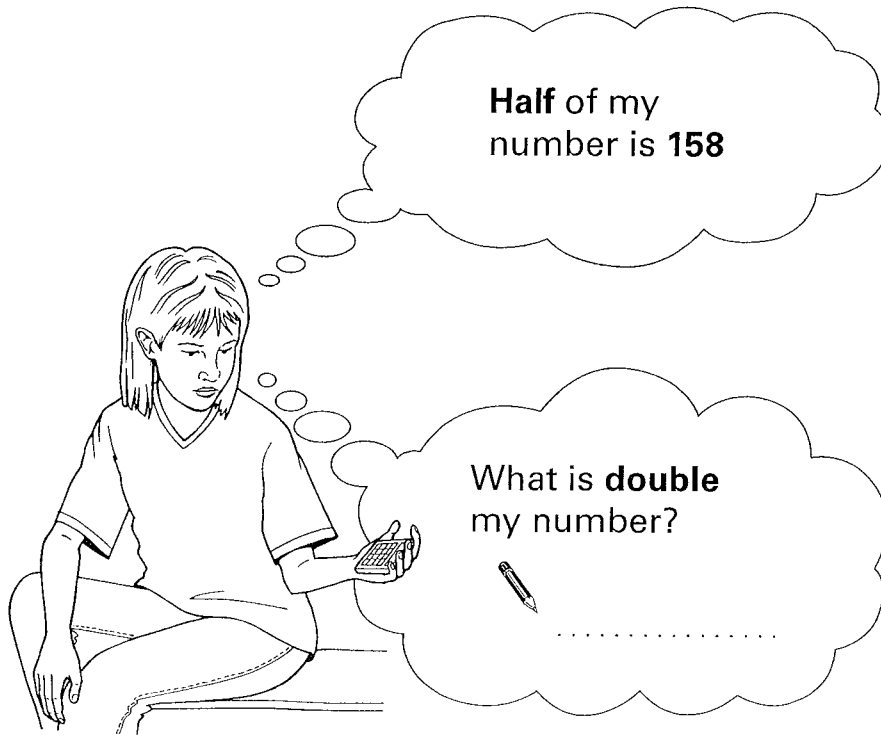


..... calculators

1 mark

18

Kim is thinking of a number.

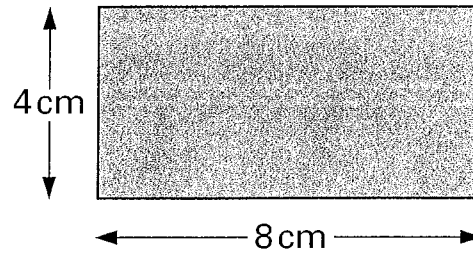


1 mark



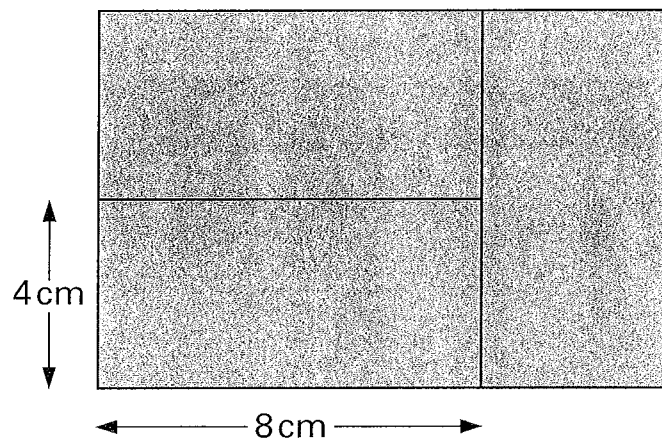
19

A rectangle measures 4 centimetres by 8 centimetres.



Not drawn accurately

Kelly uses three of these rectangles to make a larger rectangle.



Not drawn accurately

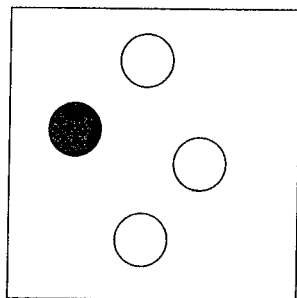
Work out the distance around the outside of this larger rectangle.



..... cm

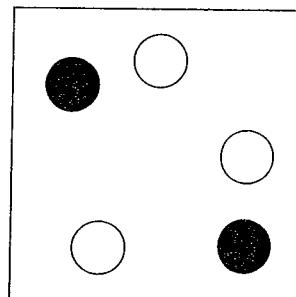
2 marks

Box A



One black and  
three white counters

Box B



Two black and  
three white counters

- (a) I am going to take a counter from one of the boxes without looking.  
Which box gives the **higher chance** of taking a **white** counter?


☐

Box A

☐

Box B

Explain your answer.

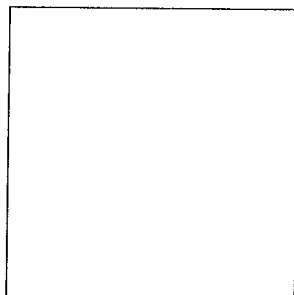


1 mark

- (b) I am going to take a counter from box C without looking.  
It is **just as likely** that I will get a white counter as a black counter.

Show what counters might be in box C.

Box C



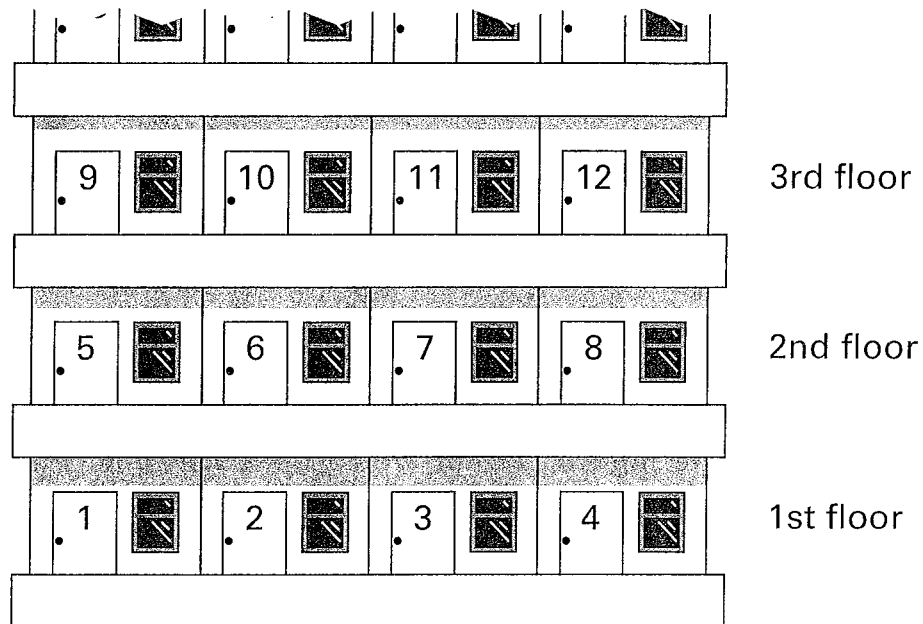
1 mark



21

The diagram shows part of a block of flats.

There are **four** flats on each floor.



(a) What are the numbers of the flats on the **10th** floor?



.....

1 mark

(b) On what floor is flat number **60**?



.....

1 mark