## Ma

YEAR 7

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	Total marks	
use only	Total marks	

## Instructions

#### **Answers**



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

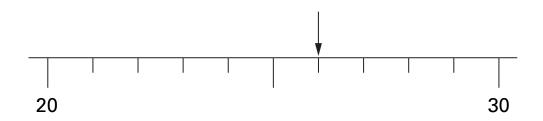
#### **Calculators**



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

http://www.SATs-Papers.co.uk

The arrow on the number line shows the value 26



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





1 mark

(b) Now look at this number line.



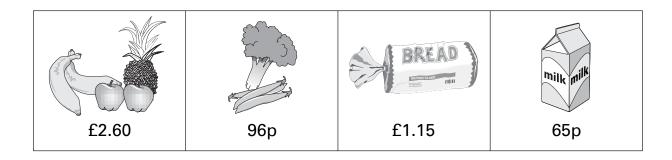
What value does the arrow show?



. . . . . 1 mark

John went shopping.

This is how much he spent.

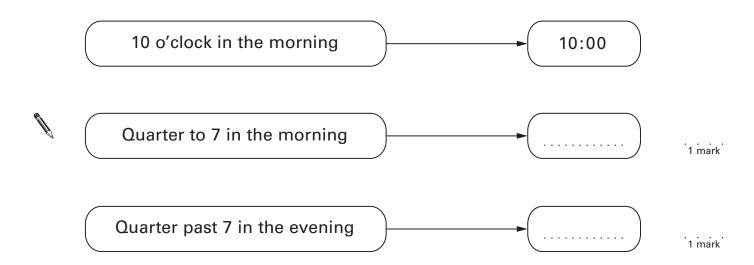


Altogether, how much did John spend?

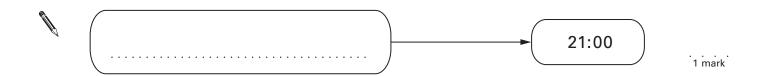


(a) Complete the missing times.

The first one is done for you.



(b) Complete the missing time.



Sourced from SATs-Papers.co.uk

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?



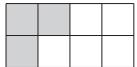
5	(a)	Steve says there are <b>1000 centimetres in one metre</b> .  Is he correct?	
		Yes No	
		Explain your answer.	
			1 mark
	(b)	How many millimetres are in one centimetre?	
		millimetres	 1 mark
6		A school raised £1758 for charity.	_
		A newspaper wrote:	
		School raises nearly £1800 for charity	
		Write the missing number in this sentence.  The newspaper rounded £1758 to the nearest	

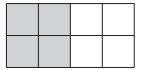
- 7
- (a) Which shape below is shaded  $\frac{3}{4}$  grey?

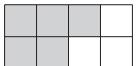
Put a ring round the correct one.



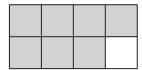












1 mark

(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.

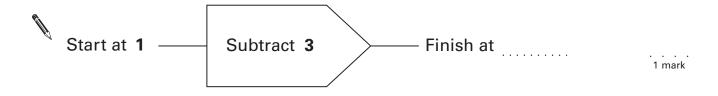


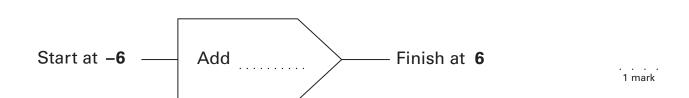
Here is a number line.

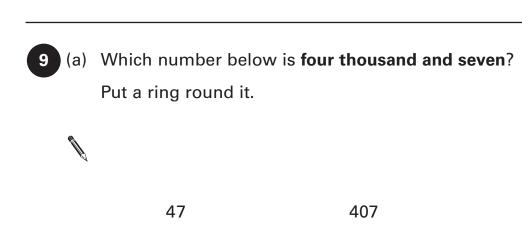


The number line can help you work out the missing numbers below. The first one is done for you.









1 mark

(b) Write in figures the number three million.



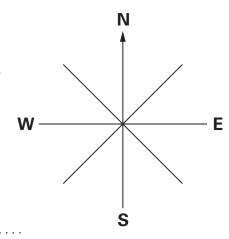
4007

400007

**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.

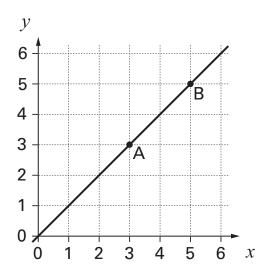
She turns clockwise to face north-west.

Through how many degrees does she turn?



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?



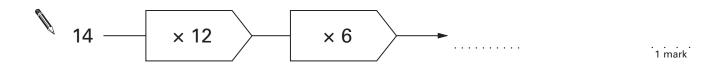
(b) Here is a different line on the square grid.

Write the coordinates of any point on this line.



Look at this multiplying chain.

Write the missing numbers in the multiplying chains below.



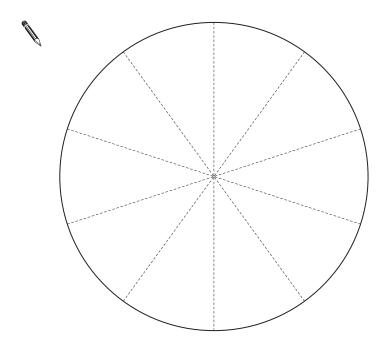
Sourced from SATs-Papers.co.uk

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.





- (a) Sam wrote the calculation:

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

Is he correct?

- Yes
- No

Explain your answer.

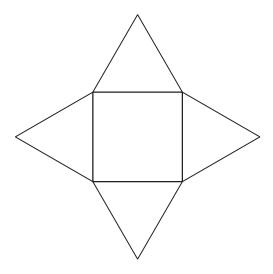
(b) Think about the fraction  $\frac{1}{5}$ 

How many of them add to make 1?



. . . . . 1 mark

Here is a net of a 3-D shape.



When the net is folded, what 3-D shape will it make? Tick ( $\checkmark$ ) the correct answer below.



Cube Prism Square-based pyramid

Triangular-based pyramid

Cuboid

. . . . . . 1 mark

Amit says:

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

Is he correct?



Yes



Explain how you know.



A teacher asked each pupil in her class:

'How many calculators do you own?'

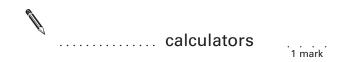
The frequency table shows the results.

Number of calculators	Frequency	
0	5	
1	22	
2	1	

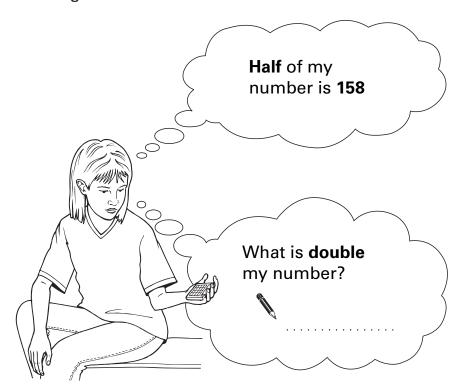
(a) How many pupils are in the class?

	 pupils	 1 mark

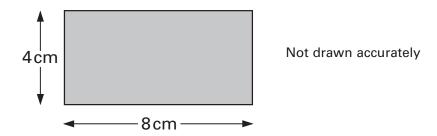
(b) Altogether, how many calculators do the pupils in the class own?



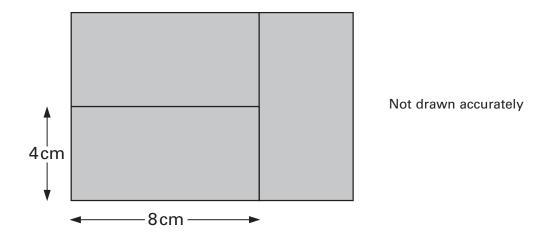
### Kim is thinking of a number.



A rectangle measures 4 centimetres by 8 centimetres.



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

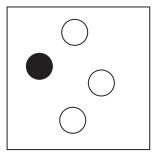


Work out the distance around the outside of this larger rectangle.



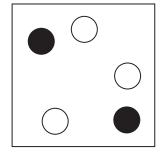
..... cm .... 2 marks





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



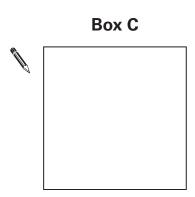
Explain your answer.



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.

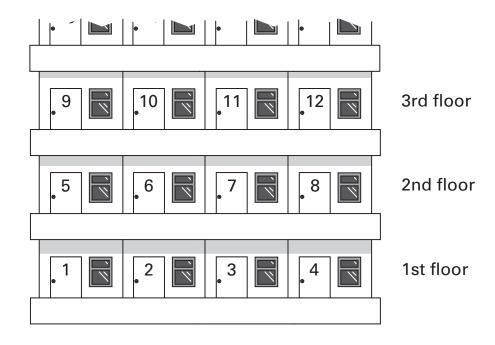
Show what counters might be in box C.



. . . . 1 mark

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?



(b) On what floor is flat number 60?



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1 mark

**END OF TEST** 

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