

Ma

YEAR
7

LEVELS
3–4

2003

Year 7 mathematics test

Paper 1

Calculator not 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 **must not** use a calculator for any question in this test.
- You will need: pen, pencil, rubber, ruler, tracing paper and mirror (optional).
- 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

Instructions

Answers



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

Calculators

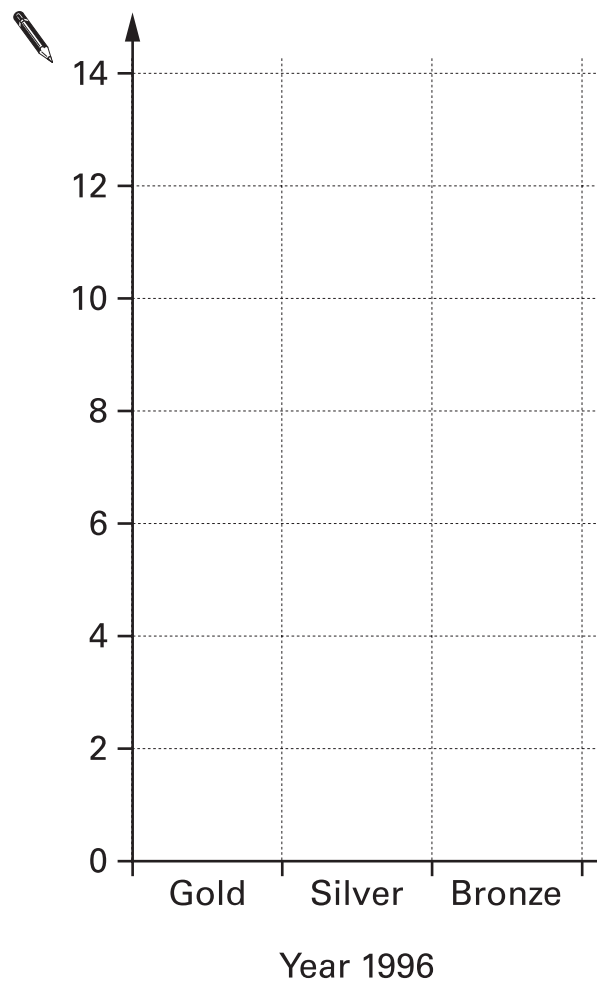
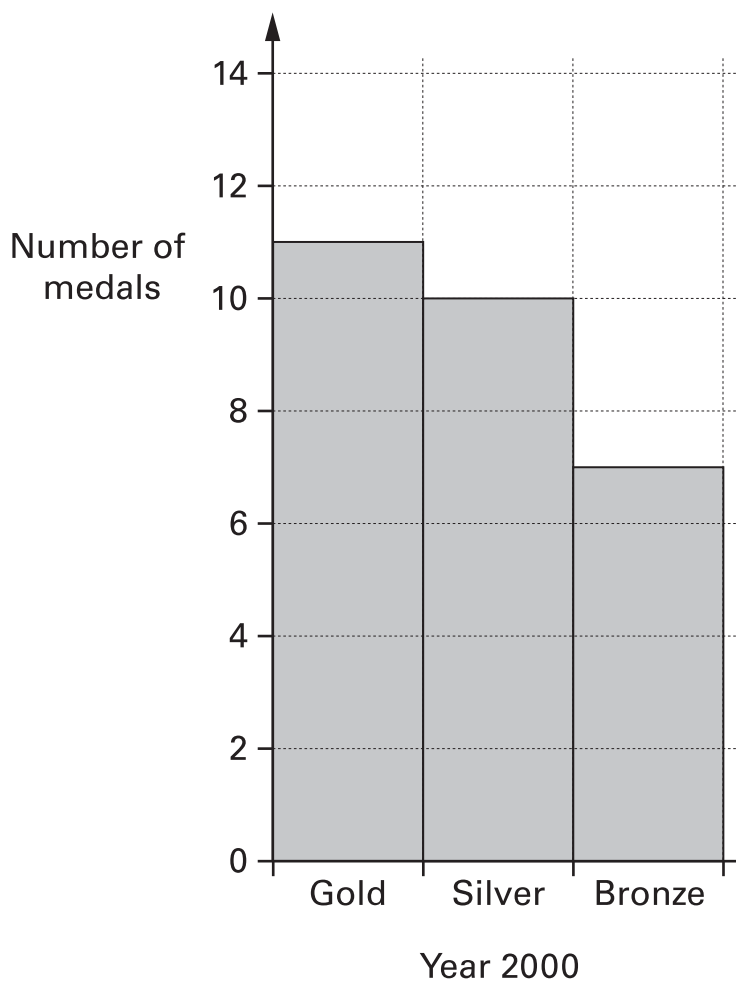


You **must not** use a calculator to answer any question in this test.

- 1 The table shows the medals that Britain won in the Olympic Games in the year 2000 and in the year 1996.

Year	Number of medals		
	Gold	Silver	Bronze
2000	11	10	7
1996	1	8	6

Complete the bar chart to show the medals that were won in 1996.



2 marks

2 Write a number in each box to make the calculation correct.



$$36 + \boxed{} = 100$$

1 mark

$$100 - \boxed{} = 51$$

1 mark

$$\boxed{} \times 5 = 100$$

1 mark

$$100 \div \boxed{} = 25$$

1 mark

3 (a) The time now is

06:55

I woke up **half an hour ago**.

What time was it when I woke up?



.....

1 mark

(b) The time now is still

06:55

I must leave for school at **7.15am**.

In how many minutes is that?



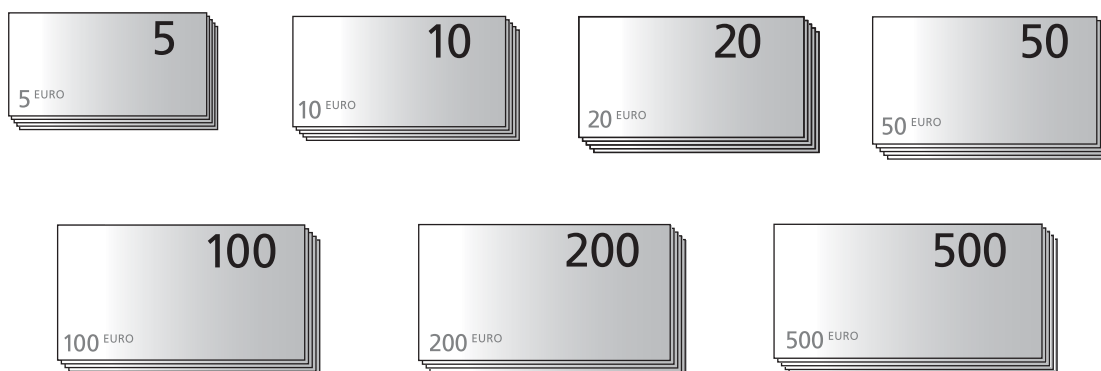
..... minutes

1 mark



4

The pictures show all the different euro banknotes.



- (a) Marco has four banknotes.

Altogether he has **eight hundred** euros.

What banknotes could Marco have?

Write the value of each of the banknotes.



.....,, and

1 mark

- (b) Anna also has four banknotes that total **eight hundred** euros.

Her banknotes are **not exactly the same** as Marco's.

What banknotes could Anna have?



.....,, and

1 mark

5

The grid shows the number **591**

100	200	300	400	500	600	700	800	900
10	20	30	40	50	60	70	80	90
1	2	3	4	5	6	7	8	9

(a) Show the number **460** on the grid below.

100	200	300	400	500	600	700	800	900
10	20	30	40	50	60	70	80	90
1	2	3	4	5	6	7	8	9

1 mark

(b) Now show the number that is **the answer to $460 \div 10$** 

100	200	300	400	500	600	700	800	900
10	20	30	40	50	60	70	80	90
1	2	3	4	5	6	7	8	9

1 mark

6

Work out the answers to these calculations.

$$257 + 649$$



.....

1 mark

$$541 - 382$$



.....

1 mark

$$23 \times 4$$

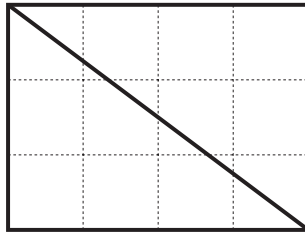


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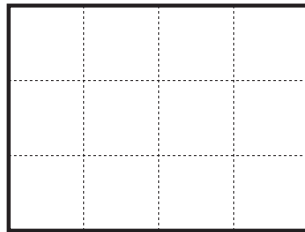
1 mark

7

You can draw one straight line on the rectangle to make **two triangles**.

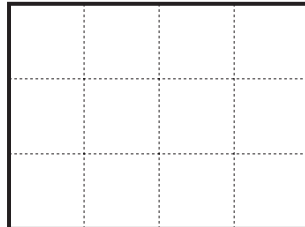


- (a) Draw one straight line on the rectangle below to make **one square** and **one rectangle** that is not a square.



1 mark

- (b) Draw one straight line on the rectangle below to make **one triangle** and **one quadrilateral**.



1 mark



- 8 (a) Pat saves **50p coins**.

She has saved **£7.50**

How many 50p coins make £7.50?



.....

1 mark

- (b) Callum saves **20p coins**.

He needs £5

So far, he has saved **£2.80**

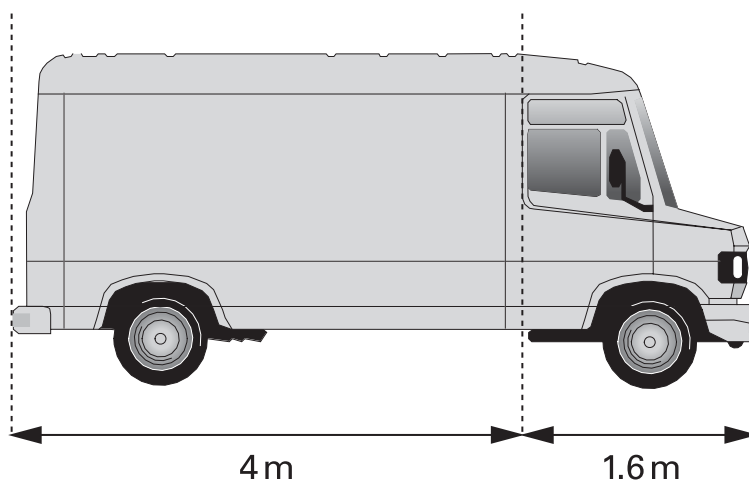
How many **more** 20p coins does he need to make £5?



.....

1 mark

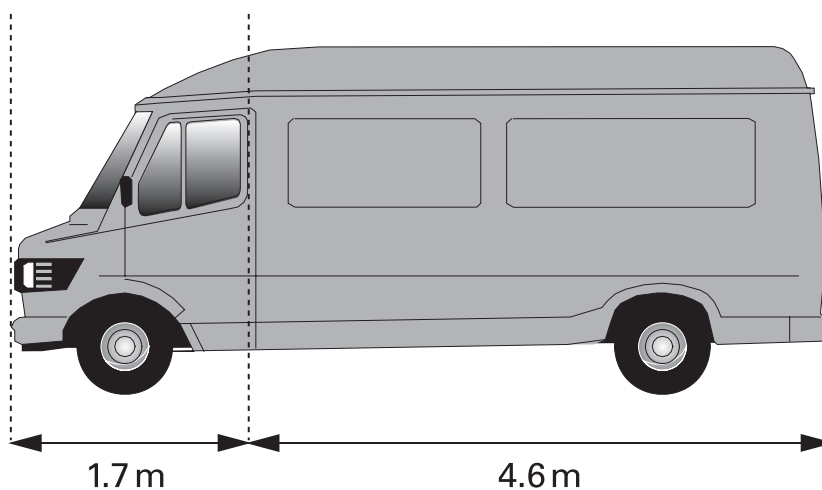
- 9 (a) Work out the total length of this van.



m

1 mark

- (b) Now work out the total length of this van.



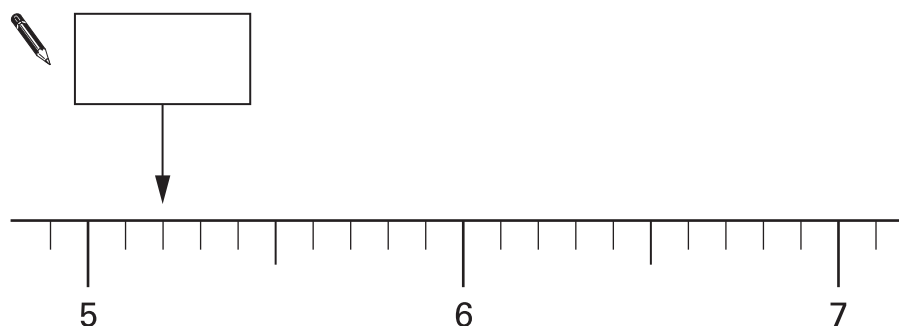
m

1 mark



- 10 (a) The diagram shows part of a number line.

What number is the arrow pointing to?



1 mark

- (b) Now draw an arrow on the number line above to show the number that is **1.2 less than 7**

1 mark

- (c) Work out the answer to **6.7 – 0.8**

A rectangular box for writing the answer to the subtraction problem $6.7 - 0.8$. A small pencil icon is to the left of the box.

1 mark

- 11 (a) Mark was born on April 12th, **1990**.

How old will he be on April 12th, **2030**?



..... years old

1 mark

- (b) Here is the calendar for April 2030.

April 2030						
Sun	Mon	Tues	Wed	Thurs	Fri	Sat
	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30				

Mark's birthday is April 12th.

In 2030, on what **day** of the week will he have his birthday?



.....

1 mark

- (c) Nisha's birthday is exactly **three weeks after** Mark's birthday.

On what **date** is Nisha's birthday?



.....

1 mark



12

Each diagram in this question is drawn on a square grid.

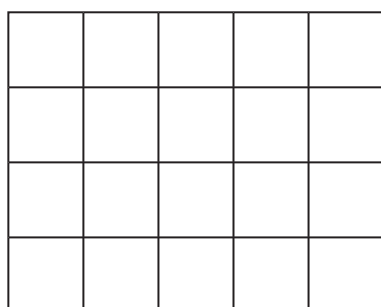
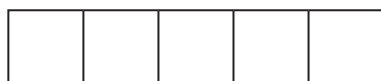
50% of this diagram is shaded.



Shade **20%** of each of the diagrams below.



1 mark

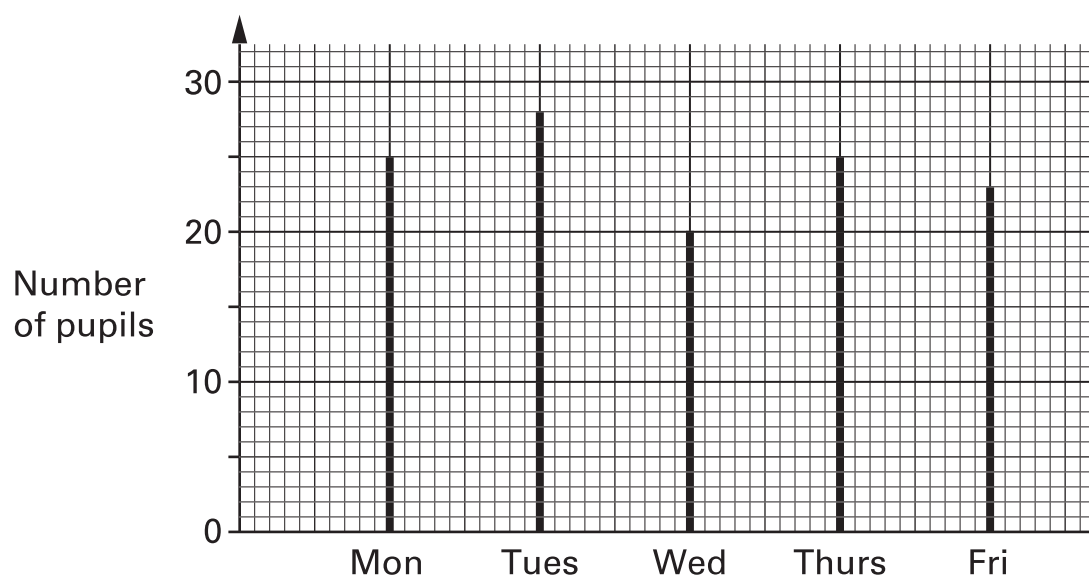


1 mark

13

This question is about pupils in class 7Y.

The graph shows how many of these pupils were at school each day.



(a) On which days were only **25 pupils** at school?



.....

1 mark

(b) On Tuesday all the pupils in class 7Y were at school.

How many of these pupils were **not** at school on Wednesday?

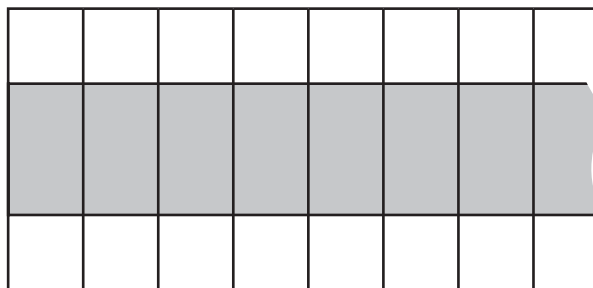


.....

1 mark



- 14** Kerry makes a pattern from grey tiles and white tiles.
You cannot see all of the pattern but it continues in the same way.



- (a) Kerry uses **30 grey** tiles.
How many white tiles does she use?



..... white tiles

1 mark

- (b) Tim makes a pattern like Kerry's but
he uses **64 white** tiles.

How many grey tiles does Tim use?

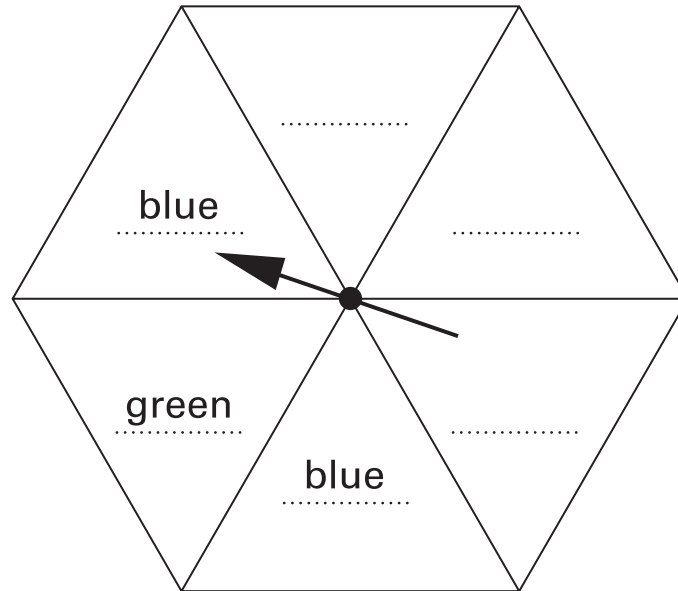


..... grey tiles

1 mark

15

Write colours on this spinner so that you are **more likely** to spin **green** than you are to spin **blue**.



1 mark

16

Work out 32×21

Show your working.



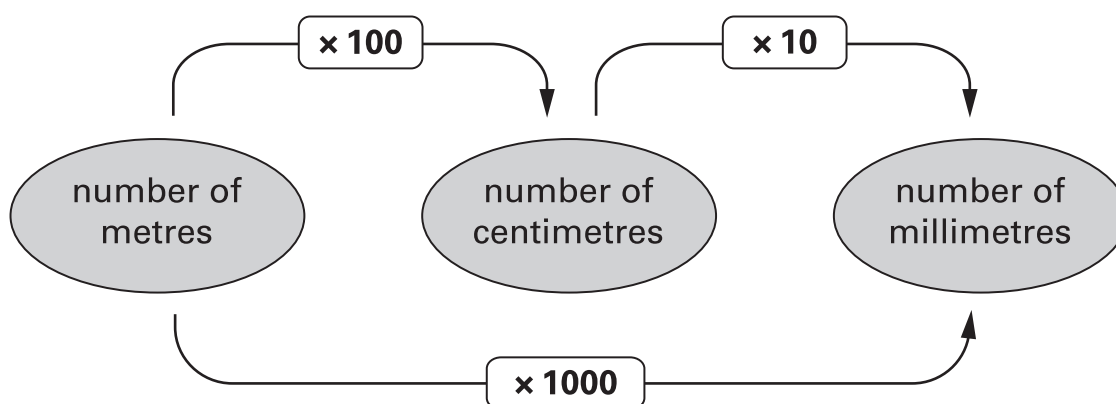
.....

.....

2 marks



- 17 Look at the diagram.
It shows how to change metres into centimetres and millimetres.



- (a) Change **5 metres** into centimetres.



..... centimetres

1 mark

- (b) Change **9 centimetres** into millimetres.



..... millimetres

1 mark

- (c) Change **8000 millimetres** into metres.



..... metres

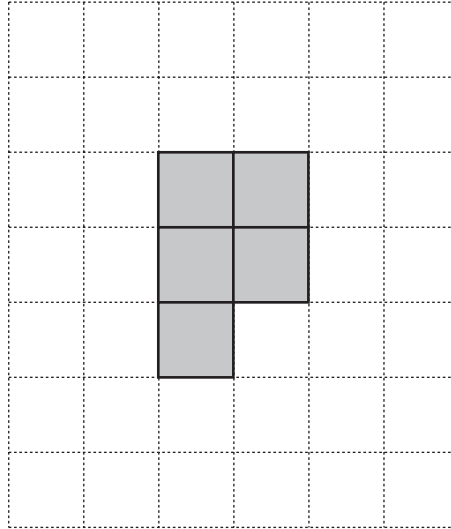
1 mark

18

Look at the square grid.

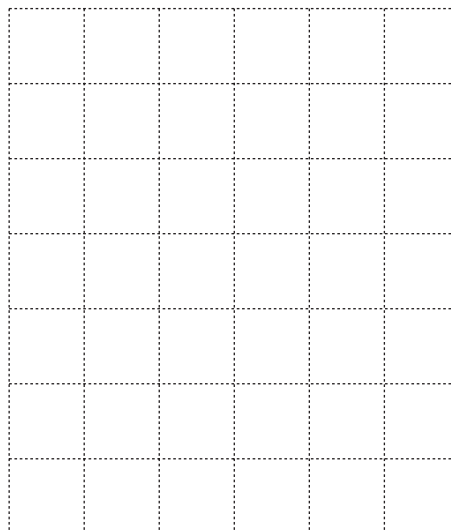
Five squares are shaded to make a shape.

The shape has **no** lines of symmetry.



On the grid below, **shade five squares** to make a different shape.

The shape must have exactly **one line of symmetry**.



1 mark



