

Mathematics

Paper A


2004

39 min

40 marks

Calculator Not Allowed

1. Write in the missing numbers.

 + 85 = 200

1 mark

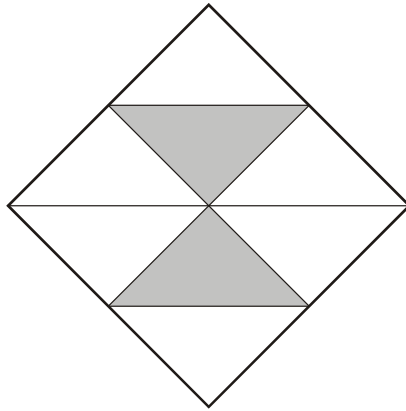
4 × = 120

1 mark

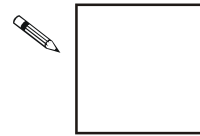
120 - 51 =

1 mark

2. Here is a square.

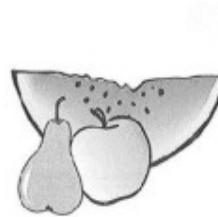
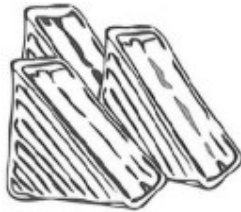


What fraction of the square is shaded?



1 mark

3.



These are the prices of sandwiches, drinks and fruit.

Sandwiches		Drinks		Fruit	
cheese	£1.45	milk	55p	apple	15p
tuna	£1.70	cola	45p	pear	20p
salad	£1.20	juice	65p	melon	25p

Shereen buys a **tuna** sandwich, **milk** and a **pear**.


How much does she pay?



1 mark

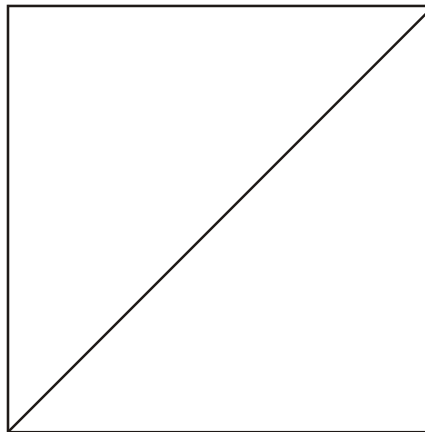
Mike has 80p to spend on a **fruit** and a **drink**.

What **two** things can he buy for exactly **80p**?

..... and


1 mark

4.



Measure accurately the length of the **diagonal** of this square.

Give your answer in **centimetres**.

 cm

1 mark

5. Use **each** number card **once** to make the answer to each calculation an **even** number.

3

4

5

 $5 \times \square$

$12 \div \square$

$9 + \square$

2 marks

6.



Alan has **45 beans**.

He plants **3 beans** in each of his pots.

How many pots does he need?



1 mark

Leila puts **4 seeds** in each of her pots.

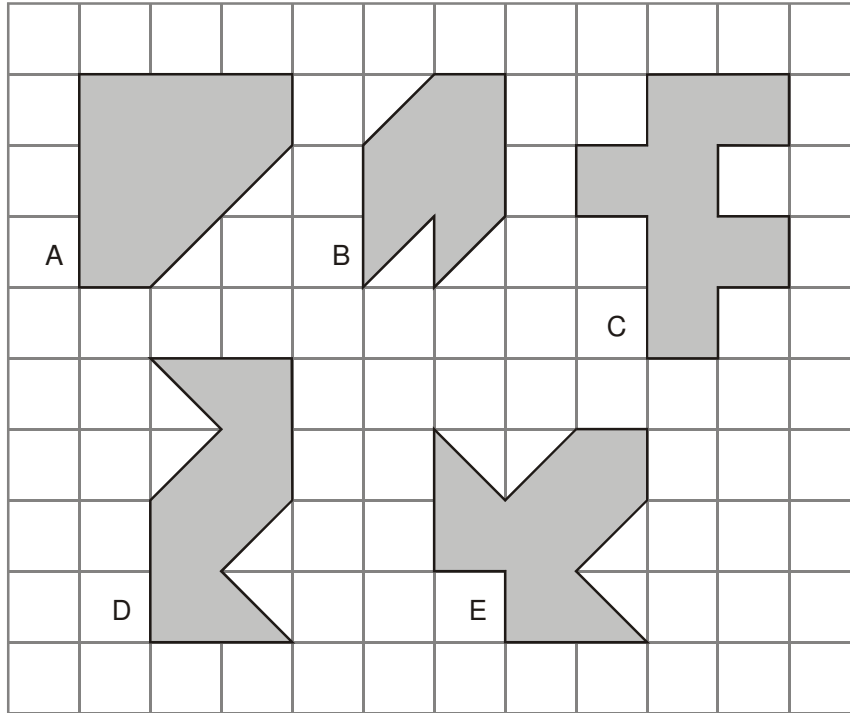
She uses **6 pots** and has **1 seed** left over.

How many seeds did she start with?




1 mark

7. Here are five shapes on a square grid.



Write the letters of the **two** shapes which have a line of symmetry.

 and

2 marks

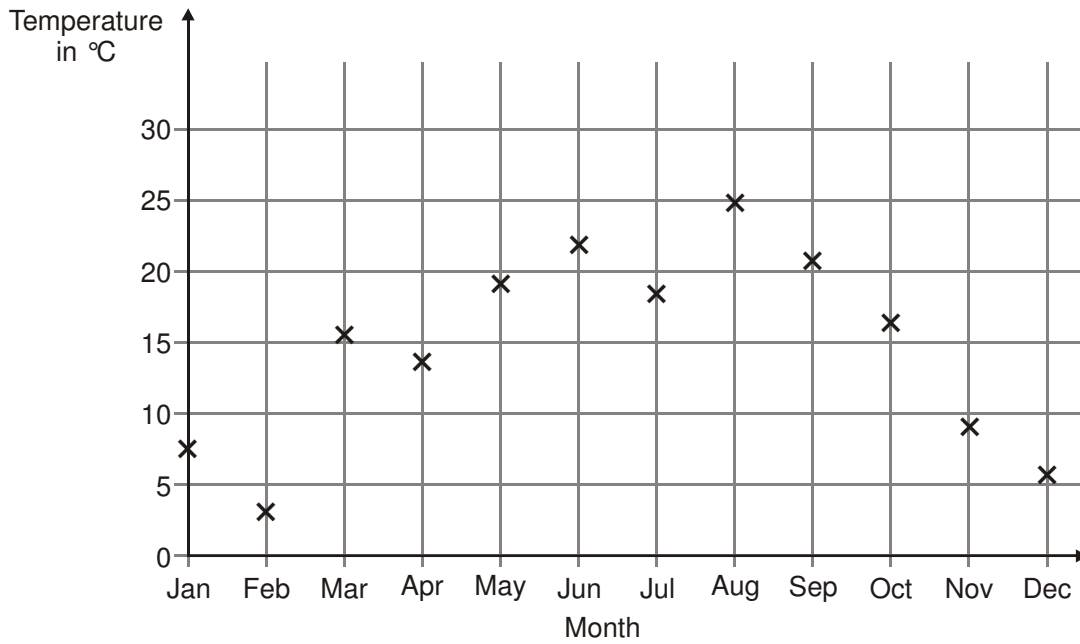
8. Calculate **13.6 – 2.8**



1 mark

9. Abbie takes the temperature outside at midday on the first day of each month.

The graph shows her results from January to December.



How many months on the graph show a temperature between **10°C** and **20°C**?



1 mark

Find the difference in temperature shown on the graph between **July** and **August**.



1 mark

10. A shop sells three types of sunglasses.

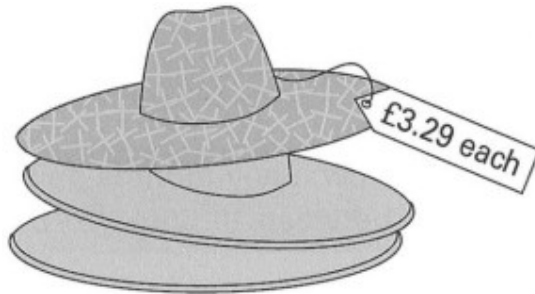


What is the **difference** in price between the **most** expensive and **least** expensive sunglasses?

 £

1 mark

The shop also sells sun hats.



Ryan buys the **£4.69 sunglasses** and a **sun hat**.

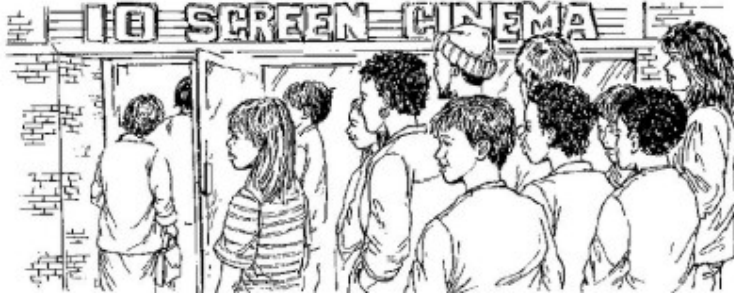
How much change does he get from **£10**?



Show your **working**.
You may get a mark.

2 marks

11.



A film starts at 6:45pm.

It lasts 2 hours and 35 minutes.

What time will the film finish?



	pm
--	----

1 mark

12. Here is a sorting diagram for numbers.

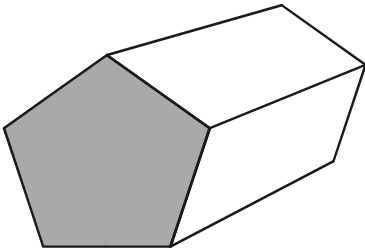
Write a number **less than 100** in each space.



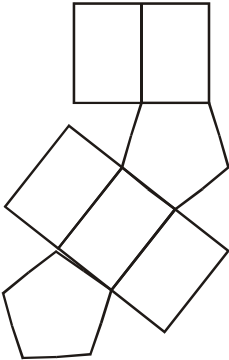
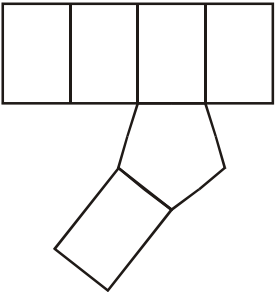
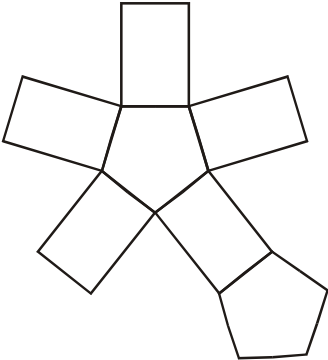
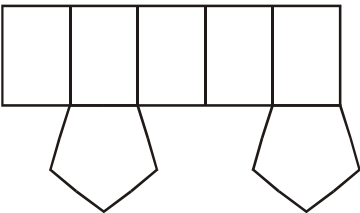
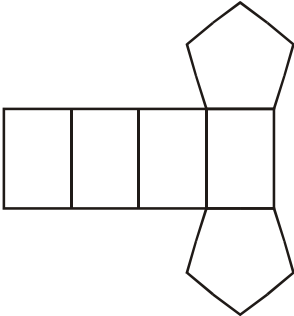
	even	not even
a square number		
not a square number		

2 marks

13. This is a drawing of a pentagonal prism.



Tick (✓) the one shape that is a net for the pentagonal prism.



1 mark

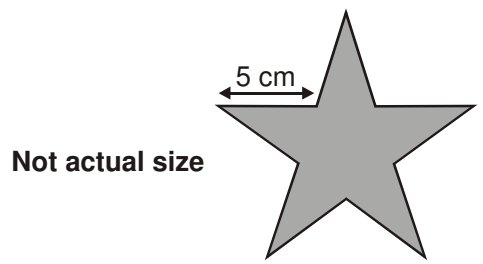
14. Write in the missing numbers in this multiplication grid.

✎ ×	5	<input type="text"/>	<input type="text"/>
4	20	36	32
<input type="text"/>	35	63	56
<input type="text"/>	30	54	48

2 marks

15. Millie has some star-shaped tiles.

Each edge of a tile is 5 centimetres long.



She puts two tiles together to make this shape.

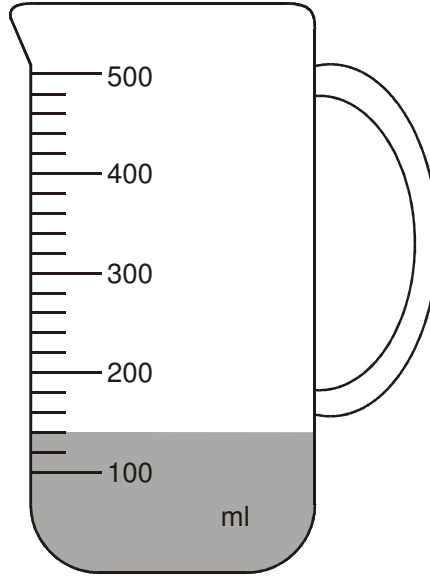


Work out the perimeter of Millie's shape.

✎

1 mark

16. Mr Khan makes a blackcurrant drink for a party.
He pours blackcurrant squash into a jug.



How much water must he add to make **500 millilitres** of drink?

 ml

1 mark

17. Calculate **31.6×7**



1 mark


18. Mari is the presenter of a weekly radio show.




She plays **five** new songs for every **two** old songs.


Last week she played 15 **new** songs.

How many songs did she play **altogether**?



Show your **working**.
You may get a mark.





2 marks

19. Julie says,

***'I added three odd numbers
and my answer was 50'***

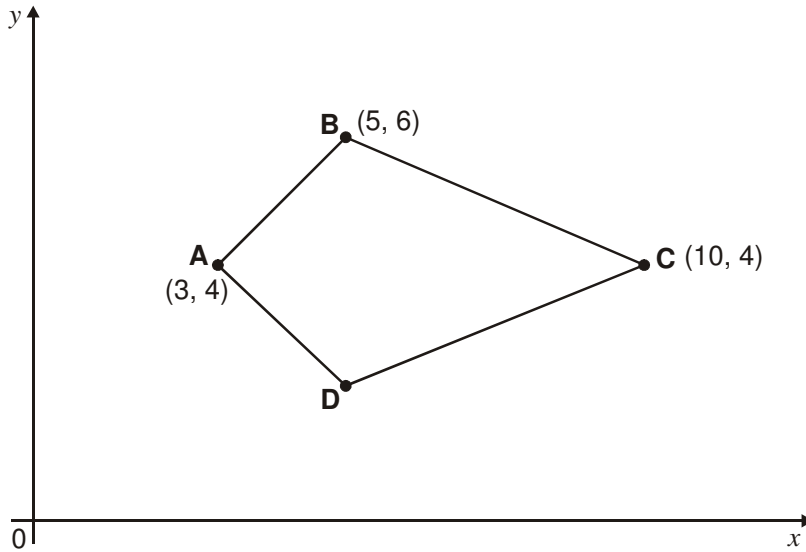
Explain why Julie cannot be correct.



.....
.....
.....

1 mark

20. Here is a kite.



Write the coordinates of point **D**.



(,)

1 mark

21. Calculate **$900 \div (45 \times 4)$**



.....

1 mark

22. Liam thinks of a number.

He **multiplies the number by 5** and then **subtracts 60** from the result.

His answer equals the number he started with.



What was the number Liam started with?

 Show your **working**. You may get a mark. 

2 marks

23.



Here is part of a train timetable.

Edinburgh	–	09:35	–	–	13:35	–	–
Glasgow	09:15	–	11:15	13:15	–	13:45	15:15
Stirling	09:57	–	11:57	13:57	–	14:29	15:57
Perth	10:34	10:51	12:34	14:34	14:50	15:15	16:35
Inverness	–	13:10	–	–	17:05	–	–

How long does the first train from Edinburgh take to travel to Inverness?



1 mark

Ellen is at Glasgow station at 1.30pm.

She wants to travel to Perth.

She catches the next train.

At what time will she arrive in Perth?



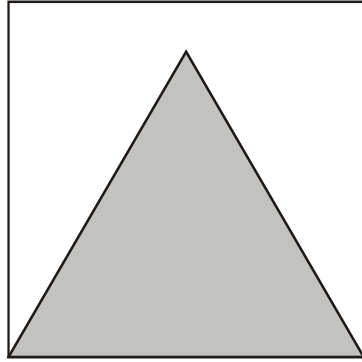
1 mark

24. Calculate **5%** of **£3600**



1 mark

25. Here is an equilateral triangle inside a square.



Not actual size

The perimeter of the triangle is 48 centimetres.

What is the perimeter of the **square**?

Show your **working**.
You may get a mark.

cm

2 marks