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KEY STAGE

LEVEL

## Mathematics

# Paper 2

## Calculator allowed

Day		Month		Year	
	Day	Day	Day Month	Day Month	Day Month Year



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### Instructions

You may use a calculator to answer any questions in this paper.

Work as quickly and as carefully as you can.

You have **30 minutes** for this test.

If you cannot do one of the questions, **go on to the next one**.

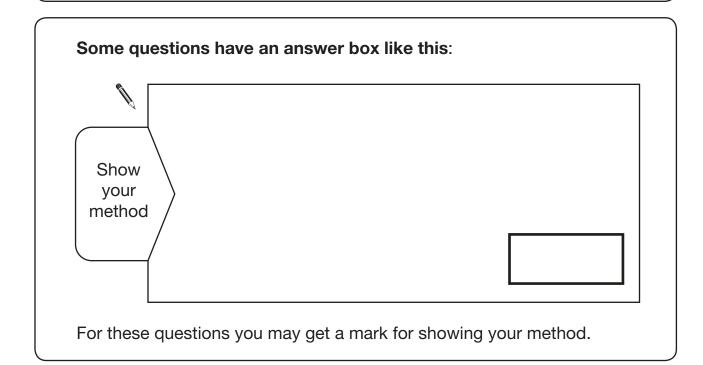
You can come back to it later, if you have time.

If you finish before the end, go back and check your work.

Follow the instructions for each question carefully.

This shows where you need to put the answer.

If you need to do working out, you can use any white space on a page. Do not write over any barcode.





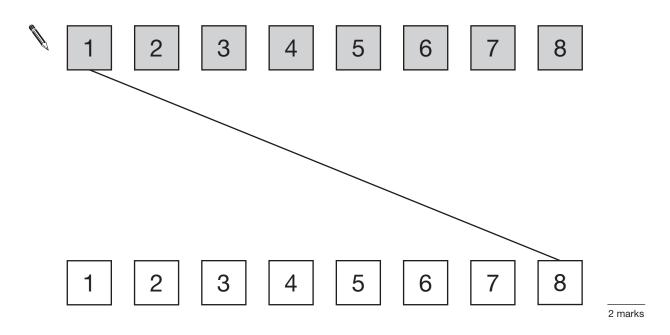
 $\boldsymbol{g}$  stands for a number on a grey card.

w stands for a number on a white card.

Join all pairs of numbers that match this rule:

$$2g + w = 10$$

One is done for you.



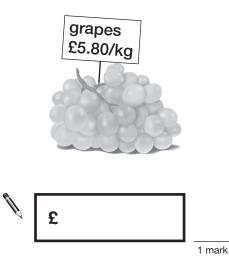


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Megan buys 700 grams of grapes.

How much does she pay?

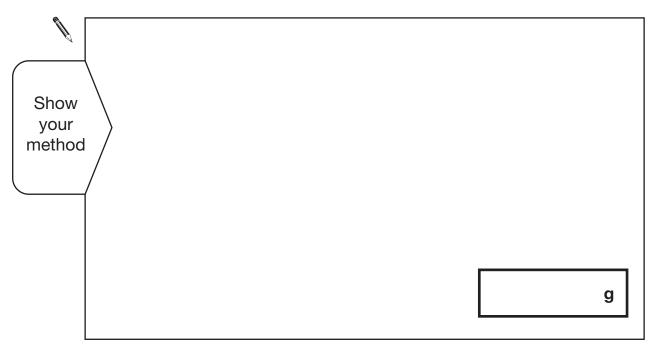


(b) 1 kilogram of cheese costs £13.50

Megan buys a piece of cheese costing £2.49



What is the mass of the cheese to the nearest 100 grams?



2 marks



There are 90 children in Year 6 at Woodland Junior School.

They are split into three classes.

Class	Number in class		
6M	27		
6P	33		
6Т	30		

Each child chose football or netball or hockey.

In 6M, 13 children chose hockey.

The rest of the class were split equally between football and netball.

In 6P, 9 children chose netball.

Twice as many children chose football as chose hockey.

In 6T, the ratio of children who chose football to netball to hockey was 1:2:3

Complete this table.



Class	Number in class	Football	Netball	Hockey
6M	27			13
6P	33		9	
6Т	30			

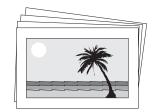
2 marks



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Alfie has some photographs printed.

The cost is £2.50 for postage and 12 pence for each print.



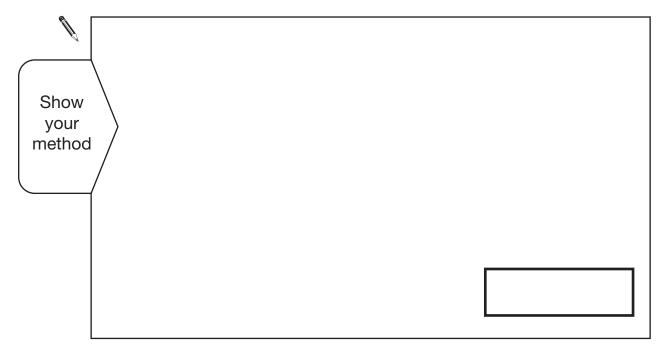
Alfie uses this formula for the total cost (C) in pence.

C = 250 + 12n

*n* stands for the number of photographs.

The total cost for Alfie is £6.70

How many photographs does he have printed?



2 marks



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A bag contains coloured counters.

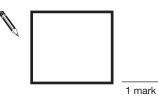
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20 red counters numbered 1 to 20 50 blue counters numbered 1 to 50 100 green counters numbered 1 to 100



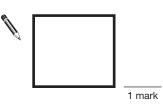
Chen is going to pick one counter without looking.

What is the probability of picking a counter with the number 40 on it? (a)



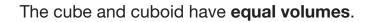
The counter Chen picks is **red**. (b)

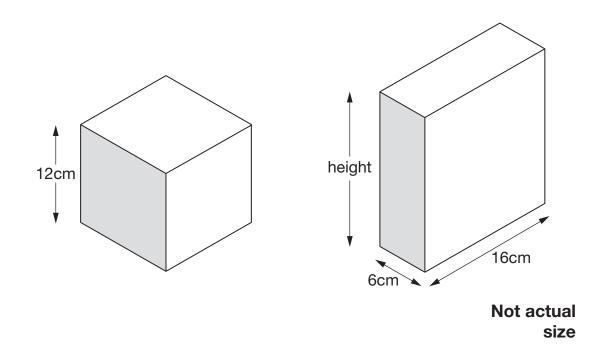
What is the probability that it has the number 15 on it?



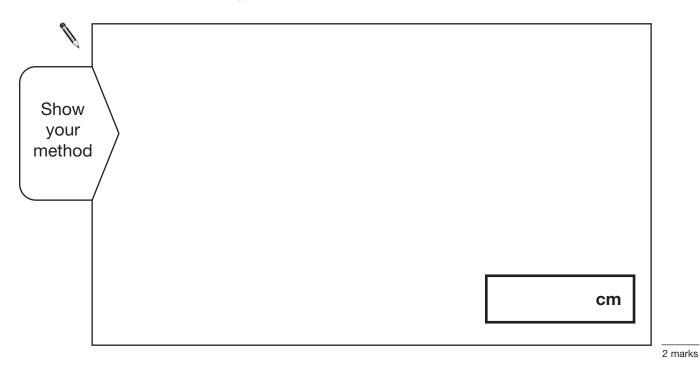


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Calculate the height of the cuboid.





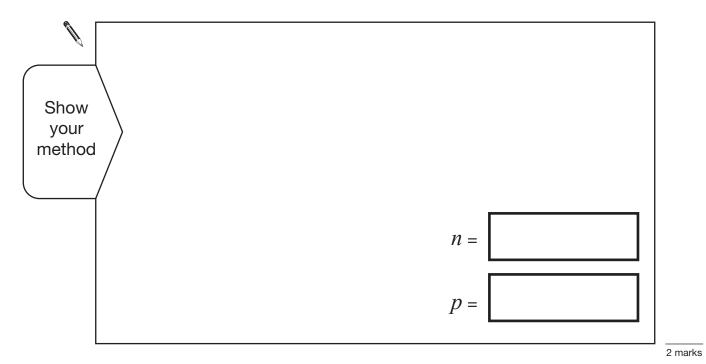
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n and p stand for two numbers.

*n* is a multiple of 5 p is a multiple of 6

$$\frac{n}{p} = \frac{2}{3}$$

Find numbers that n and p stand for.





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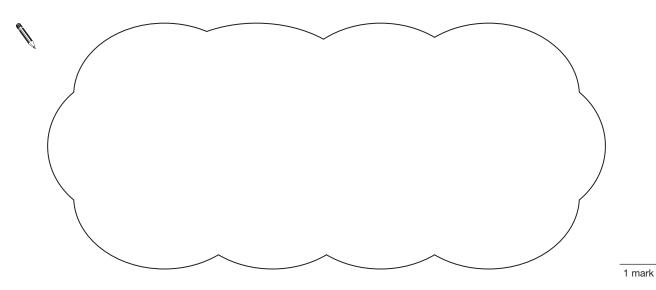
Two fair dice are each numbered from 1 to 6

The dice are rolled. The numbers are added together to make a total.

Jack says,

### 'The totals 3 and 9 are equally likely.'

Explain why Jack is **not** correct.



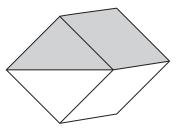
Total 9



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Here is a cube.

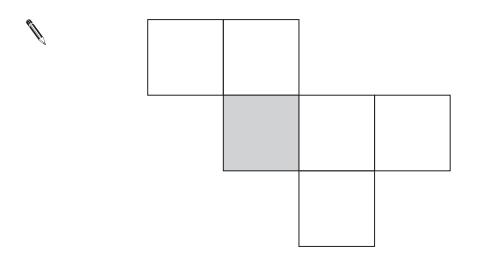
The top half of the cube has been shaded all the way round.



Here is a net for the cube.

One square has been shaded for you.

Shade more of the net so that it could fold to make the cube above.



2 marks

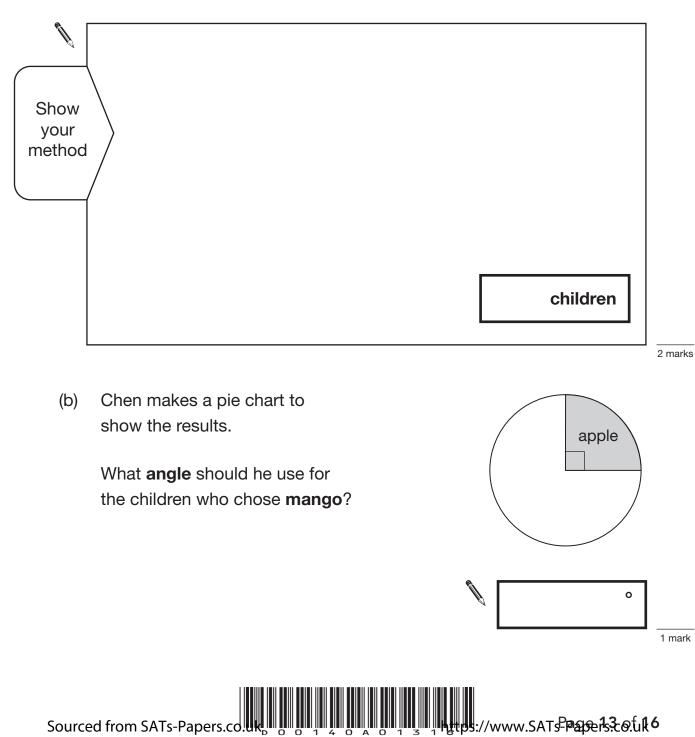


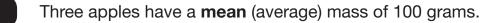
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Juice	Apple	Orange	Grape	Mango
Percentage of children	25%	14%	30%	31%

(a) **20 more** children chose grape than chose apple.

How many children took part in the survey?

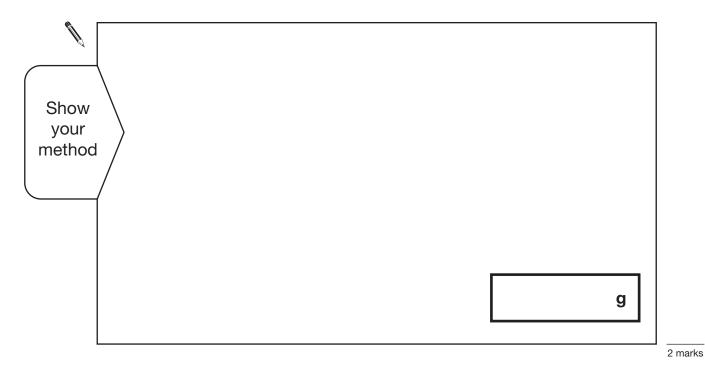




The largest apple is removed.

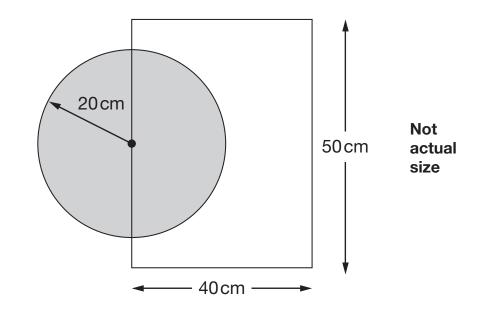
The **mean** mass of the remaining two apples is 70 grams.

What is the mass of the largest apple?



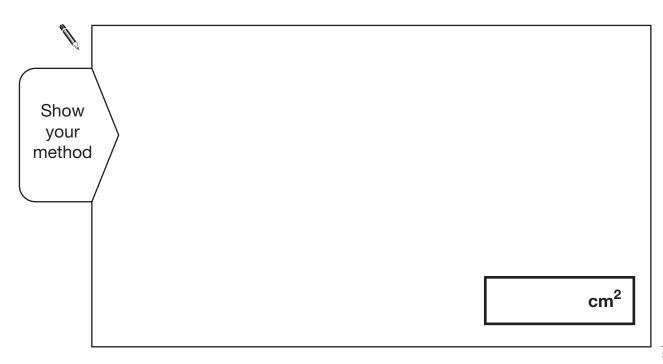


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Calculate the **area** of the rectangle that is **not** shaded.

Use this formula: The area of a circle is **3.14 × (radius)<sup>2</sup>** 



3 marks



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