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Functional Skills Level 2 MATHEMATICS

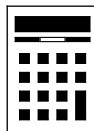
Paper 2 Calculator

Tuesday 25 February 2020 Afternoon Time allowed: 1 hour 30 minutes

Materials

For this paper you must have:

- a calculator
- mathematical instruments.



Instructions

- Use black ink or black ball-point pen. Draw diagrams in pencil.
- Answer **all** questions.
- You must answer the questions in the spaces provided. Do not write outside the box around each page or on blank pages.
- If you need extra space for your answer(s), use the lined pages at the end of this book. Write the question number against your answer(s).
- Do all rough work in this book. Cross through any work you do not want to be marked.
- State the units of your answer where appropriate.

Information

- The marks for questions are shown in brackets.
- The maximum mark for this paper is 60.
- You may ask for more answer paper, graph paper and tracing paper. These must be tagged securely to this answer book.
- If your calculator does not have a π button, take the value of π to be 3.142

Advice

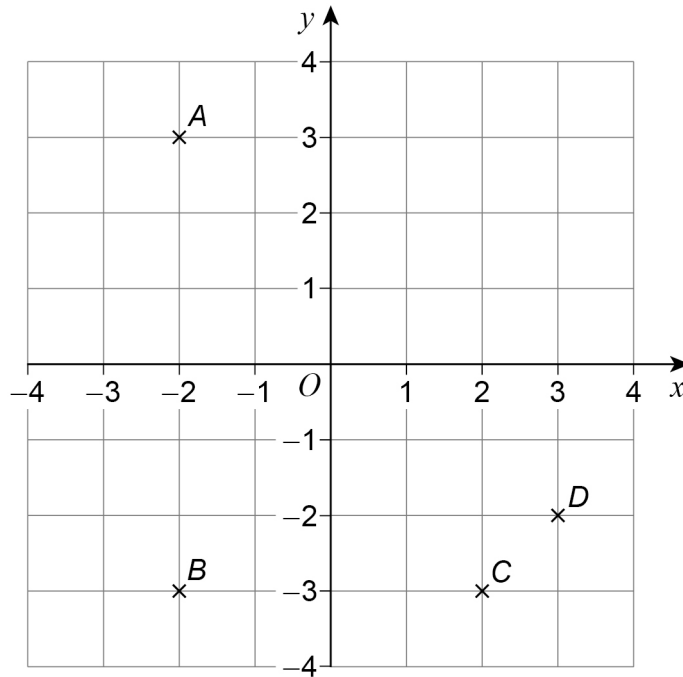
In all calculations, show clearly how you work out your answer.

For Examiner's Use	
Question	Mark
1–5	
6	
7	
8	
9	
TOTAL	



Section AAnswer **all** questions in the spaces provided.

- 1 Which point has the coordinates $(-2, 3)$?



Circle your answer.

[1 mark]

A

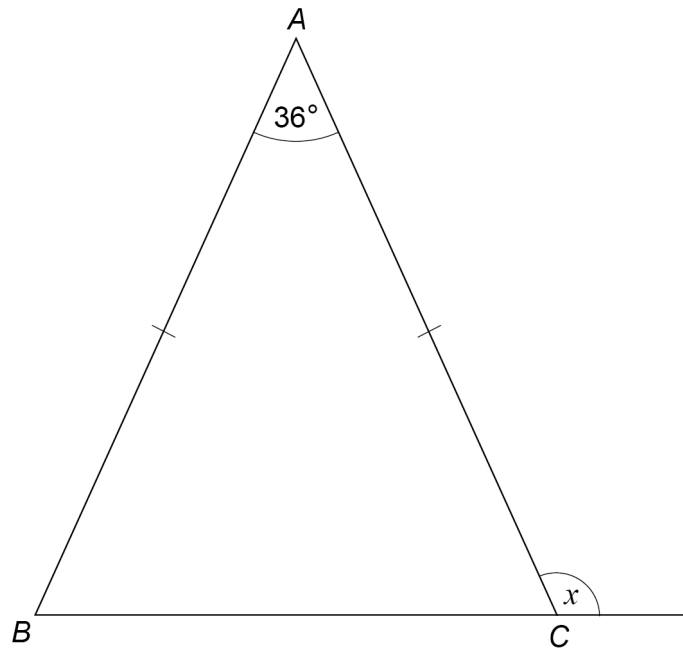
B

C

D



- 2 Here is an isosceles triangle.
 $AB = AC$



Work out the size of angle x .

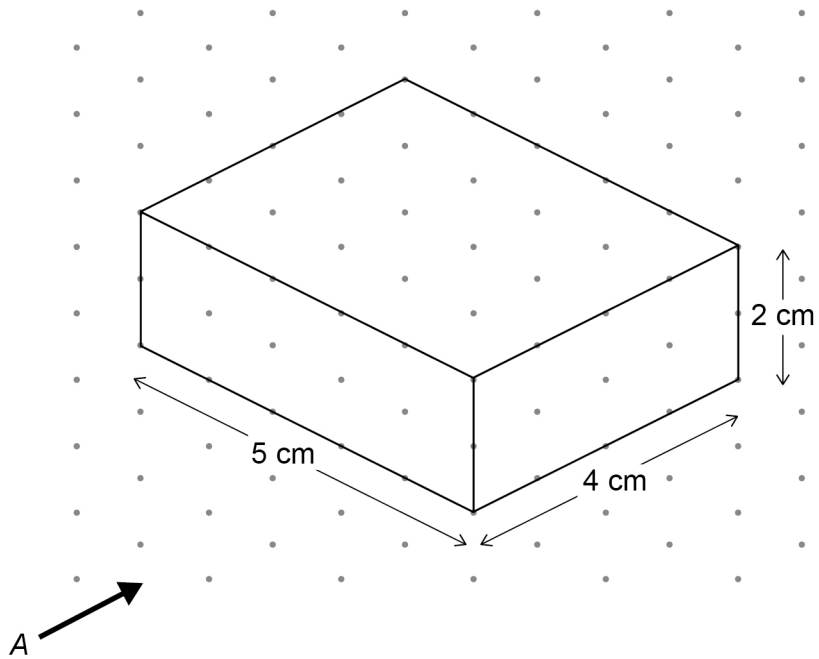
[3 marks]

Answer _____ °

Turn over ►

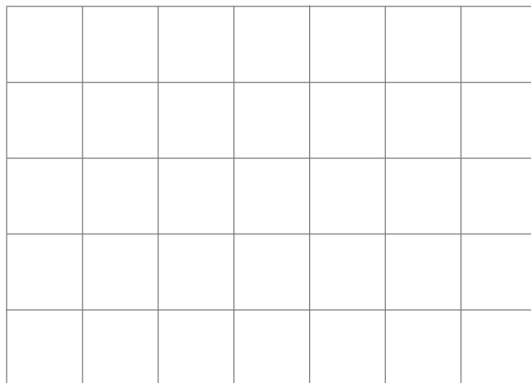


- 3 A cuboid is shown below.



- 3 (a) Draw the elevation of the cuboid in the direction of the arrow.

[1 mark]



3 (b) Work out the total surface area of the cuboid.

[3 marks]

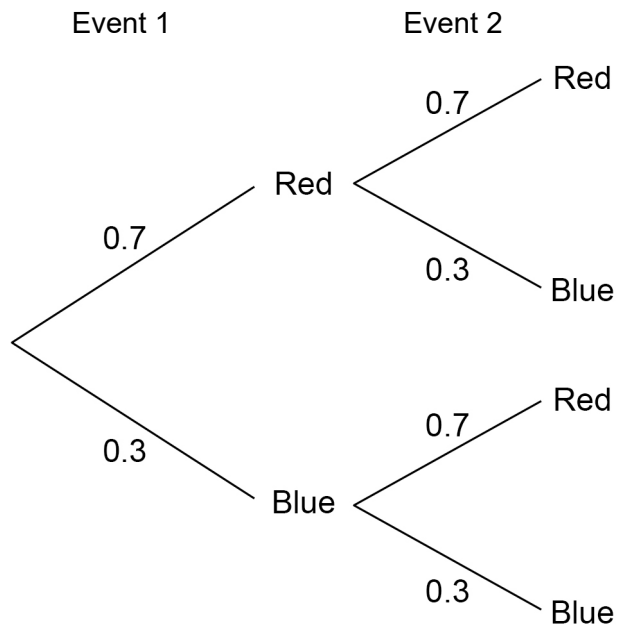
Answer _____ cm^2

Turn over for the next question

Turn over ►



4 Here is a tree diagram.



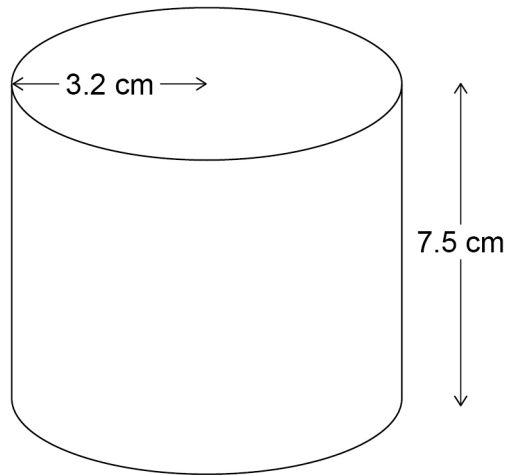
Work out the probability of Red in Event 1 **and** Red in Event 2

[2 marks]

Answer _____



- 5 A cylinder has radius 3.2 cm and height 7.5 cm



Work out the volume of the cylinder.

[2 marks]

Answer _____ cm^3

12

Turn over for Section B

Turn over ►



Section B

Answer **all** questions in the spaces provided.

6 Cycle race

Paul and Fran want to enter a 60 km cycle race.

- 6 (a)** They look at the reviews of two races, A and B, from last year.
Each review gives a score out of 5 stars to show how good the race was.
Here is some information about the review scores for **Race A**.

Mean	4.1 stars
Median	4 stars
Range	3 stars

The frequency table shows the review scores of **Race B**.

Review Score (stars)	Frequency
1	0
2	1
3	1
4	4
5	6

They enter the race with the higher average review score.

Which race do they enter?

You **must** show your working.

[4 marks]



- 6 (b) Fran wants to buy a new bike for the race.
She sees this offer.

Racing bike
£708 including VAT at 20%
SPECIAL OFFER
WE PAY THE VAT

Fran has £600 to spend.

Can she afford the bike?

You **must** show your working.

[3 marks]

Question 6 continues on the next page

Turn over ►



7 Supermarket

Lucas is going shopping at a supermarket.

- 7 (a)** Lucas has a budget of £50 per week for food.
He has already spent £12.50 on takeaway meals.

What fraction of his budget does he have left?

[2 marks]

Answer _____

Question 7 continues on the next page

Turn over ►



9 Apartment

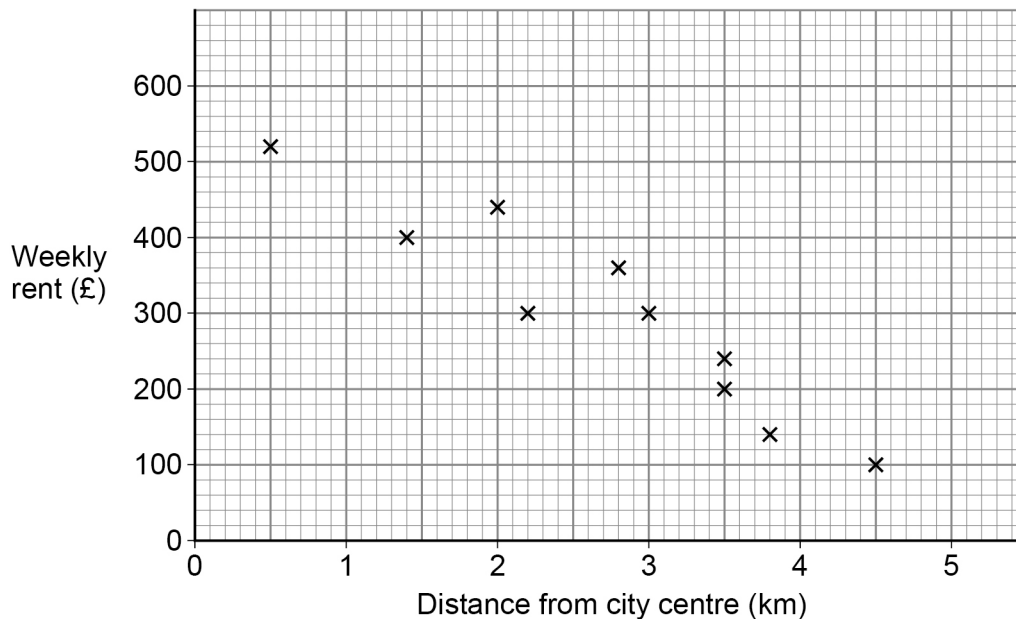
Pete wants to rent an apartment near Norwich city centre.

9 (a) He records information about 10 apartments on a scatter diagram.

The diagram shows

the distance from the city centre in km

the weekly rent in £



The table shows extra data about two other apartments.

Distance from city centre (km)	Weekly rent (£)
2	250
3.2	180

Pete rents an apartment for £280 per week.

Use the scatter diagram **with the extra data** to

estimate the distance from the city centre to the apartment.

You **must** show your working, which should be on the diagram.

[4 marks]

Answer _____

Question 9 continues on the next page

Turn over ►



9 (c) Pete wants to hide the wires from his TV.

Wires can be hidden in plastic trunking.

Trunking can be cut to any length.

Pete needs three pieces of trunking measuring

$1\frac{1}{2}$ metres

$2\frac{1}{4}$ metres

90 cm

Pete has 15 feet of trunking.

Is this enough?

Use 1 foot = 12 inches

Use 1 inch = 2.5 cm

[4 marks]

14

END OF QUESTIONS



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outside the
box*

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ANSWER IN THE SPACES PROVIDED**



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