



# FUNCTIONAL SKILLS MATHS & ENGLISH

## LEVEL 1 & 2 EXAMS

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## Leading training company for 26 years

Intech Centre is an established training provider based in Islington, London, with over 26 years of experience in delivering education, employability and digital skills programmes.

Intech Centre specialises in **Functional Skills English and Maths Level 1 & 2**, helping learners successfully pass Level 1 and Level 2 Functional Skills exams required for university entry, apprenticeships, teacher training, nursing courses and many other professional pathways.

Thousands of learners have used our resources, courses and exam services to achieve nationally recognised qualifications.

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- Functional Skills English

## Tutoring

- Functional Skills Maths & English Exam Tutoring

## EXAMS

- ➔ Functional Skills **Maths** Level 1 or 2 Exam **in London**
- ➔ Functional Skills **English** Level 1 or 2 Exam **in London**
- ➔ **Online** Functional Skills **Maths** Level 1 or 2 Exam
- ➔ **Online** Functional Skills **English** Level 1 or 2 Exam



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Please write clearly in block capitals.

Centre number

Candidate number

Surname \_\_\_\_\_

Forename(s) \_\_\_\_\_

Candidate signature \_\_\_\_\_

I declare this is my own work.

# Functional Skills Level 2

## MATHEMATICS

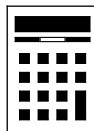
### Paper 2 Calculator

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  $\pi$  button, take the value of  $\pi$  to be 3.142

#### Advice

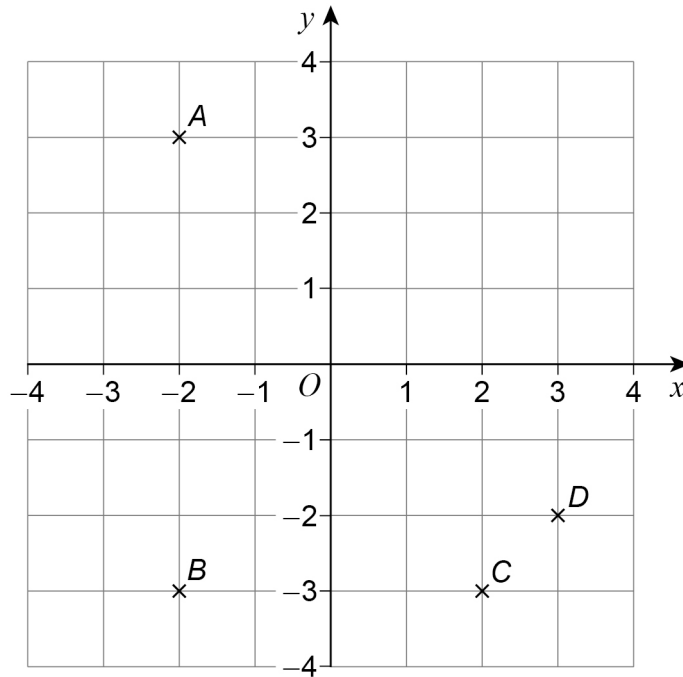
In all calculations, show clearly how you work out your answer.

For Examiner's Use	
Question	Mark
1–5	
6	
7	
8	
9	
<b>TOTAL</b>	



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

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



Circle your answer.

**[1 mark]**

A

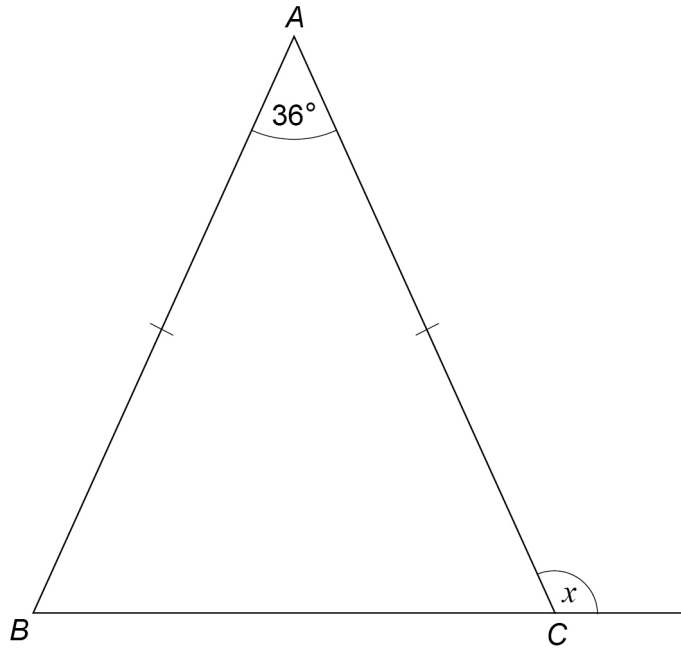
B

C

D



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



Work out the size of angle  $x$ .

[3 marks]

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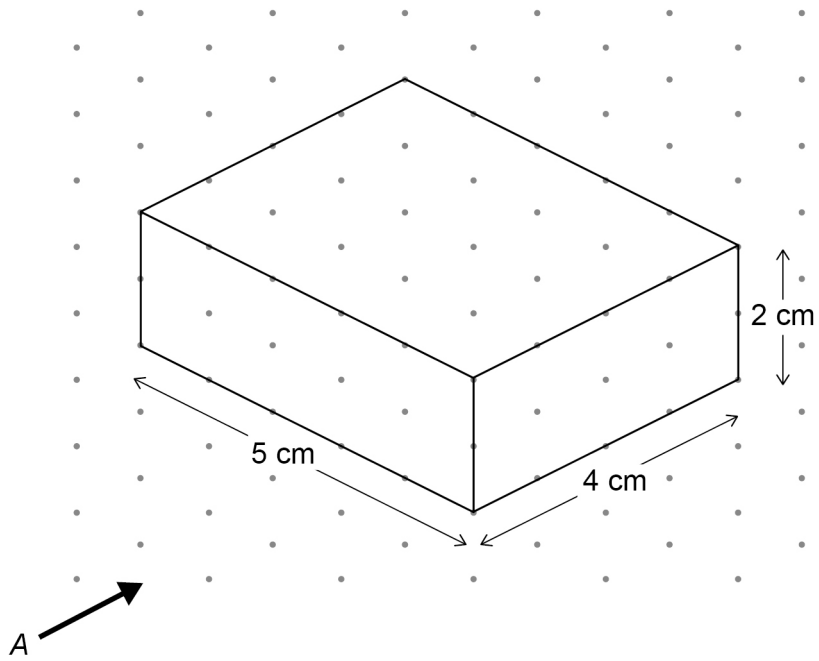
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Answer \_\_\_\_\_ °

Turn over ►

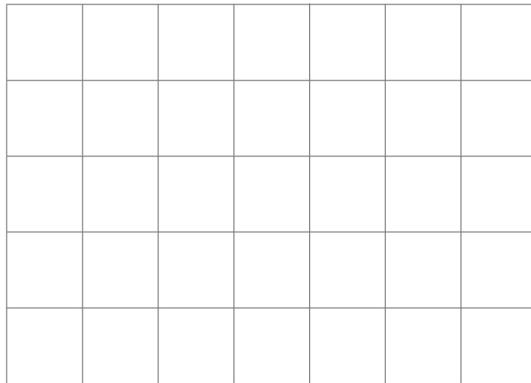


- 3 A cuboid is shown below.



- 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]**

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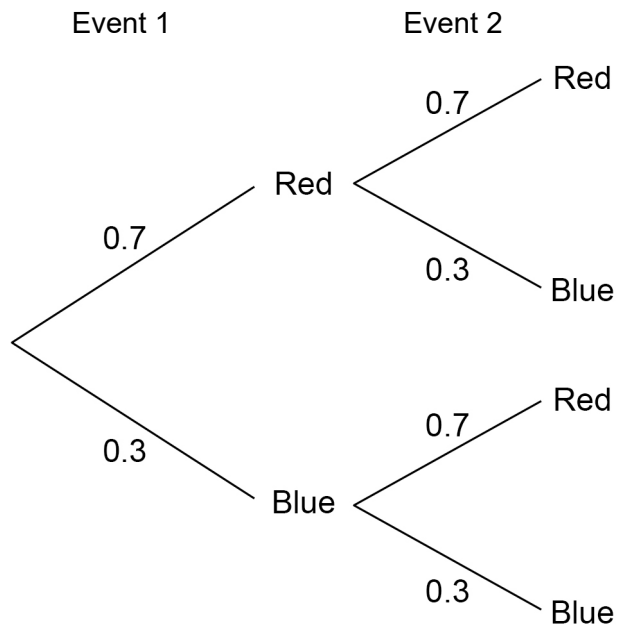
Answer \_\_\_\_\_  $\text{cm}^2$

**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]**

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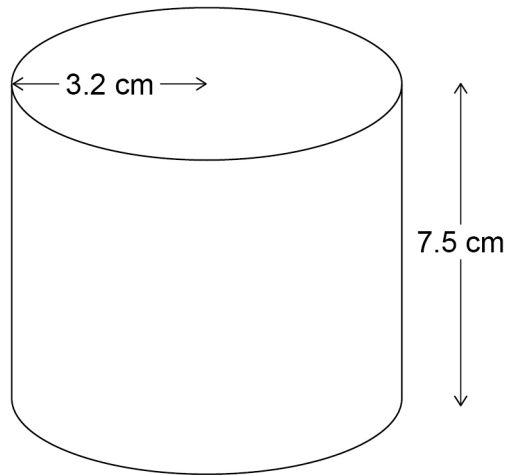
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Answer \_\_\_\_\_



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



Work out the volume of the cylinder.

[2 marks]

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Answer \_\_\_\_\_  $\text{cm}^3$

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]**

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- 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]

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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]**

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Answer \_\_\_\_\_

**Question 7 continues on the next page**

**Turn over ►**













**9 Apartment**

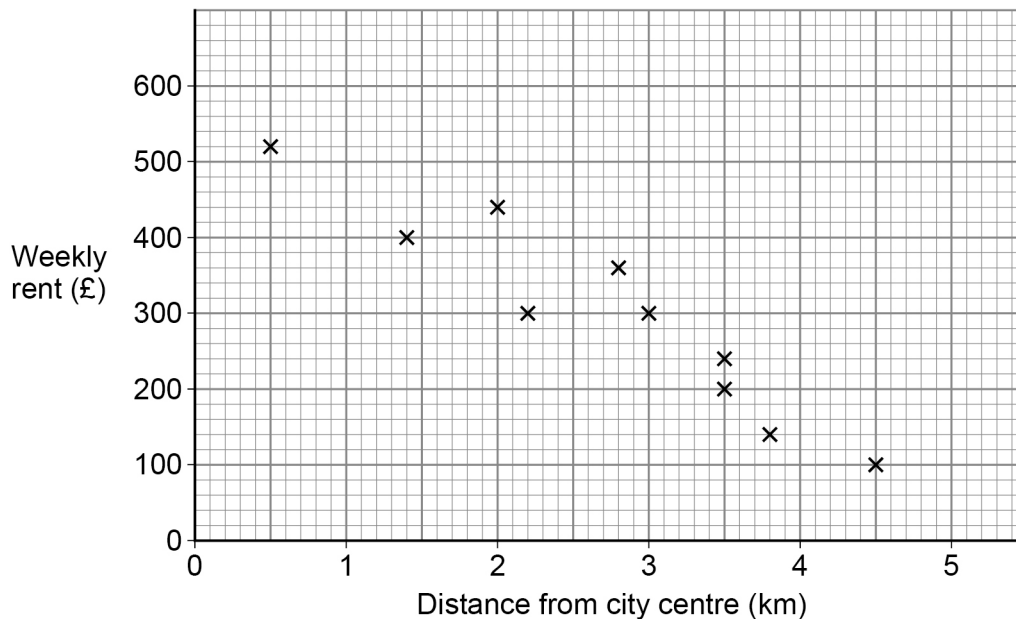
Pete wants to rent an apartment near Norwich city centre.

**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

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

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

90 cm

Pete has 15 feet of trunking.

Is this enough?

Use 1 foot = 12 inches

Use 1 inch = 2.5 cm

**[4 marks]**

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**END OF QUESTIONS**



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Functional Skills English Level 1 & 2	<a href="#">Enrol on Course</a>	<a href="#">Book Online Exam</a>	<a href="#">Book London Exam</a>

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- Over **26 years' experience** as a UK training and exam centre in London.
- **City & Guilds Functional Skills Maths and English exams**, Ofqual regulated and nationally recognised.
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