



# FUNCTIONAL SKILLS MATHS & ENGLISH

## LEVEL 1 & 2 EXAMS

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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

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- Functional Skills Maths & English Exam Tutoring

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Please write clearly in block capitals.

Centre number

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

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I declare this is my own work.

# Functional Skills Level 2 MATHEMATICS

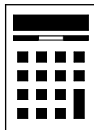
## Paper 2 Calculator

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
1–6	
7	
8	
9	
10	
<b>TOTAL</b>	



**Section A**Answer **all** questions in the spaces provided.**1** Here are six numbers.

3 3 3 4 6 8

Work out the median.

Circle your answer.

**[1 mark]**

3 3.5 4.5 5

**2** Here is a scale.

2 cm represents 5 m

What does a length of 7.2 cm represent?

**[2 marks]**

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Answer \_\_\_\_\_



3 Work out the value of  $a^2 - 4b$  when  $a = 3.6$  and  $b = 1.7$

[2 marks]

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Answer \_\_\_\_\_

4 Write these fractions in order, starting with the **smallest**.

$$\frac{13}{20}$$

$$\frac{27}{40}$$

$$\frac{3}{5}$$

[2 marks]

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Answer \_\_\_\_\_ , \_\_\_\_\_ , \_\_\_\_\_

Turn over for the next question

Turn over ►



- 5 Without calculating the exact value,  
use approximations to estimate the answer to  $376\,025 \times 6.1$

[2 marks]

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Answer \_\_\_\_\_

- 6 Complete the table to show equivalent fractions, decimals and percentages.

[3 marks]

Fraction	Decimal	Percentage
$\frac{1}{25}$	0.04	
	0.23	23%
$\frac{7}{1000}$		0.7%



**Section B**

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

**7 Jam**

Daisy makes jam and sells it at a farmers' market.

**7 (a)** Daisy makes 24 jars of blueberry jam.

The table shows the cost of the ingredients and jars that Daisy needs.

Item	Needs	Cost
Blueberries	4.5 kg	£1.79 per 150 g
Sugar	5 kg	£2.08 per kg
Lemons	4	17p each
Glass jars	24	£3.90 for 6

How much will it cost Daisy to make the 24 jars of jam?

**[6 marks]**

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Answer £ \_\_\_\_\_

**Question 7 continues on the next page**

**Turn over ►**



- 7 (b)** The glass jars are in the shape of a cylinder of radius 3.4 cm  
Daisy fills a jar to a height of 7.5 cm  
1 cm<sup>3</sup> of jam has a mass of 1.29 grams.

Work out the mass of jam in the jar.

**[4 marks]**

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Answer \_\_\_\_\_ grams





**8 Electric car**

Jamal has an electric car.

The car is powered by a rechargeable battery.

**8 (a)** Jamal installs a charging point to charge the car at home.

The government pays 40% of the cost.

Jamal pays £525

Work out the full cost.

**[3 marks]**

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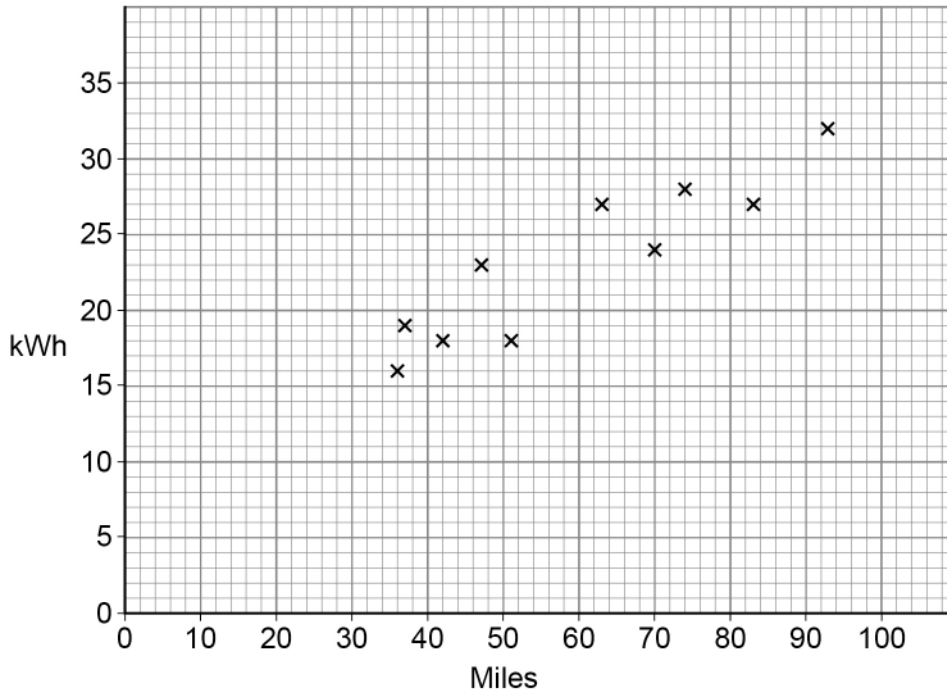
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Answer £ \_\_\_\_\_



- 8 (b) Jamal wants to know the approximate cost of the electricity used for a car journey. He records information about the miles driven and electricity used (kWh) for 12 journeys. 10 of the journeys are shown on the scatter diagram.



The table shows the extra data for the other two days.

Miles driven	Electricity used (kWh)
60	21
84	32

1 kWh of electricity costs 15p

Use the scatter diagram **with the extra data** to estimate the **cost** to drive 80 miles.

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

[6 marks]

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Answer £ \_\_\_\_\_



**9 Fitness gym**

Nicole manages a fitness gym.

**9 (a)** One week, Nicole recorded how many people used the rowing machine.

From Monday to Friday,

the mean number of people who used the machine was 21 per day.

From Monday to Sunday,

the mean number of people who used the machine was 26 per day.

32 people used the machine on Saturday.

How many people used the machine on **Sunday**?

**[3 marks]**

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Answer \_\_\_\_\_

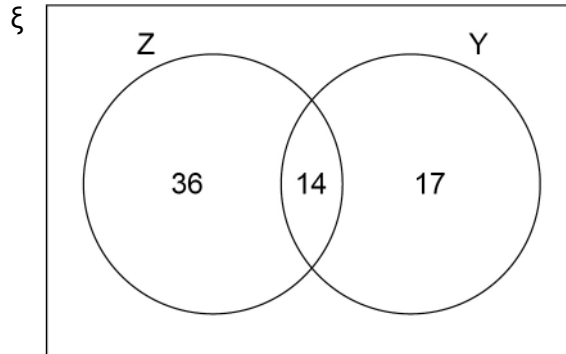


9 (b) The gym has two classes on one day.

The Venn diagram represents the members who attended at least one class.

Z = Zumba class

Y = Yoga class



One of these gym members is chosen at random.

Work out the probability that the member attended exactly **one** of the classes.

**[3 marks]**

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Answer \_\_\_\_\_

**Question 9 continues on the next page**

**Turn over ►**



**9 (c)** Lottie and Emma visit the gym.

They both exercise by running on the treadmill.

Lottie runs for 36 minutes at an average speed of 7.24 miles per hour.

Emma runs 4.125 miles.

How much further did Lottie run than Emma?

**[4 marks]**

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Answer \_\_\_\_\_ miles

10



**10 Craft business**

Ros runs a craft business.

She makes teddy bears and cushions.

**10 (a)** Ros has £350 to spend on a new sewing machine.

She buys this sewing machine.

SEWING MACHINE WAS £395 NOW 17% OFF
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How much of the £350 does Ros have left?

**[4 marks]**

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Answer £ \_\_\_\_\_

**Question 10 continues on the next page**

**Turn over ►**



- 10 (b)** Ros makes circular cushion covers.  
Each cover has a zip.  
She uses these steps to work out the length of zip needed.

**Step 1** Use the diameter to work out the circumference of the cover

**Step 2** Divide the answer to **Step 1** by 2

**Step 3** Subtract  $\frac{1}{4}$  of the diameter from the answer to **Step 2**

A cushion cover has a diameter of 16 inches.

Work out the length of the zip in centimetres.

Use 1 inch = 2.5 centimetres

**[5 marks]**

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Answer \_\_\_\_\_ cm



**10 (c)** Ros makes small teddy bears and large teddy bears.  
She fills the teddy bears with wool.  
The weight of wool she uses for each bear is in the ratio

$$\text{small teddy bears} : \text{large teddy bears} = 2 : 3$$

Ros uses 560g of wool to fill one **small** teddy bear.

How many **large** teddy bears can she fill from a 10 kg bag of wool?

**[4 marks]**

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Answer \_\_\_\_\_

_____
<b>13</b>

**END OF QUESTIONS**



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