



FUNCTIONAL SKILLS MATHS & ENGLISH

LEVEL 1 & 2 EXAMS

WHO WE ARE

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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362 Essex Road
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Please write clearly in block capitals.

Centre number

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I declare this is my own work.

Functional Skills Level 2 MATHEMATICS

Paper 2 Calculator

Monday 9 January 2023

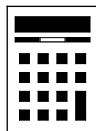
Afternoon

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.

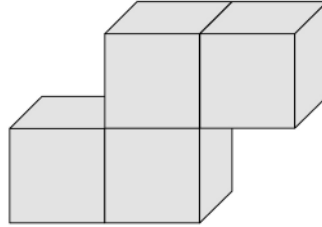
| For Examiner's Use | |
|--------------------|------|
| Question | Mark |
| 1–6 | |
| 7 | |
| 8 | |
| 9 | |
| 10 | |
| TOTAL | |



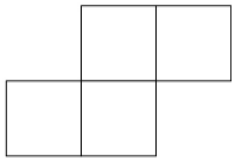
J A N 2 3 8 3 6 2 2 0 1

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

- 1** Here is a solid made from four cubes.



Circle the plan view of the solid.

[1 mark]

- 2** Write the number 2 307 049 in words.

[1 mark]



3 Which is closer in value to 0.5

0.379 or 0.614 ?

You **must** show your working.

[2 marks]

Answer _____

4

$$\text{Surface area of a sphere} = 4\pi r^2$$

Work out the surface area of a sphere with a radius of 2.3 cm
State the units of your answer.

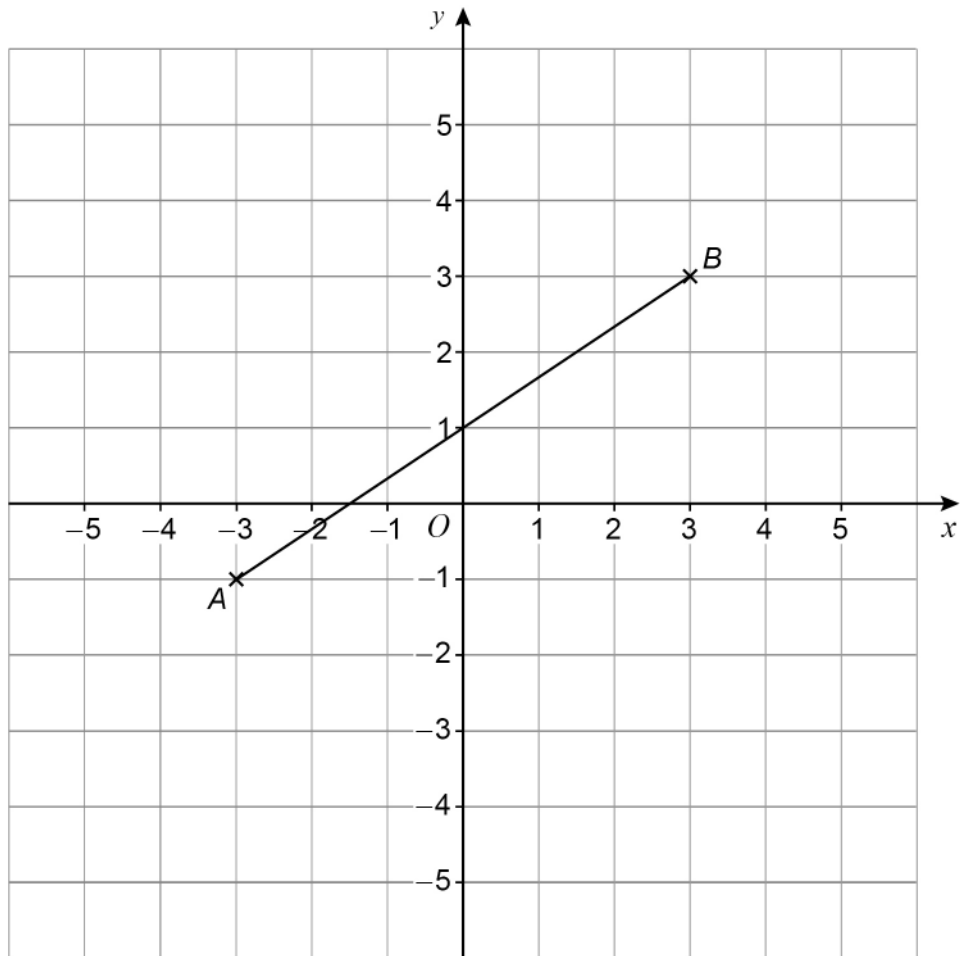
[3 marks]

Answer _____

Turn over ►



5



Point C is the midpoint of line AB.

Plot point C on the grid and write down the coordinates of C.

[2 marks]

Answer (_____ , _____)



6 The table contains grouped data.

| x | Frequency | Mid-point | |
|------------------|-------------------|-----------|--|
| $0 < x \leq 20$ | 7 | 10 | |
| $20 < x \leq 40$ | 9 | 30 | |
| $40 < x \leq 50$ | 4 | 45 | |
| | Total = 20 | | |

Work out an estimate of the mean of x .

[3 marks]

Answer _____

12

Turn over for Section B

Turn over ►

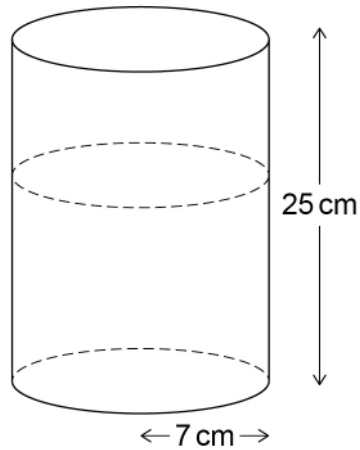


7 (b) Ashley needs to put drinking water into 40 jugs before break time.

Each jug

is a cylinder with radius 7 cm and height 25 cm

will be $\frac{3}{5}$ full.



Water flows out of the tap at 13 litres per minute.

$1000 \text{ cm}^3 = 1 \text{ litre}$

Can Ashley put the right amount of water into all 40 jugs in 6 minutes?

You **must** show your working.

[6 marks]



8 (b) There are 90 people in the pool.

number of adults : number of children = 3 : 2

One lifeguard is needed for every 10 children.

How many lifeguards are needed for the children in the pool?

[4 marks]

Answer _____

| |
|---|
| 7 |
|---|

Turn over for the next question

Turn over ►



9 Hedgehogs

Aahad works for a charity that rescues hedgehogs.

9 (a) The charity has four main costs each month.

| | Cost per month |
|--------------------|----------------|
| Straw | £25 |
| Feed | £39 |
| Electricity | £68 |
| Vets | £235 |

From next month the costs are changing.

- Straw will be free from a local farm
- Feed is increasing by $\frac{1}{6}$
- Electricity is increasing by £324 a year
- The cost of the vets will be £3090 a year.

The charity receives a new monthly donation of £30

Is the new donation enough to pay for the **increase** in total monthly costs?

You **must** show your working.

[5 marks]



- 9 (b)** The charity needs a new building for the hedgehogs.
The new building will cost £250 000
The charity invested £245 000 in a bank account 2 years ago.
The account pays 1.2% compound interest each year.

Is there enough money in the bank account to pay for the building?
You **must** show your working.

[3 marks]

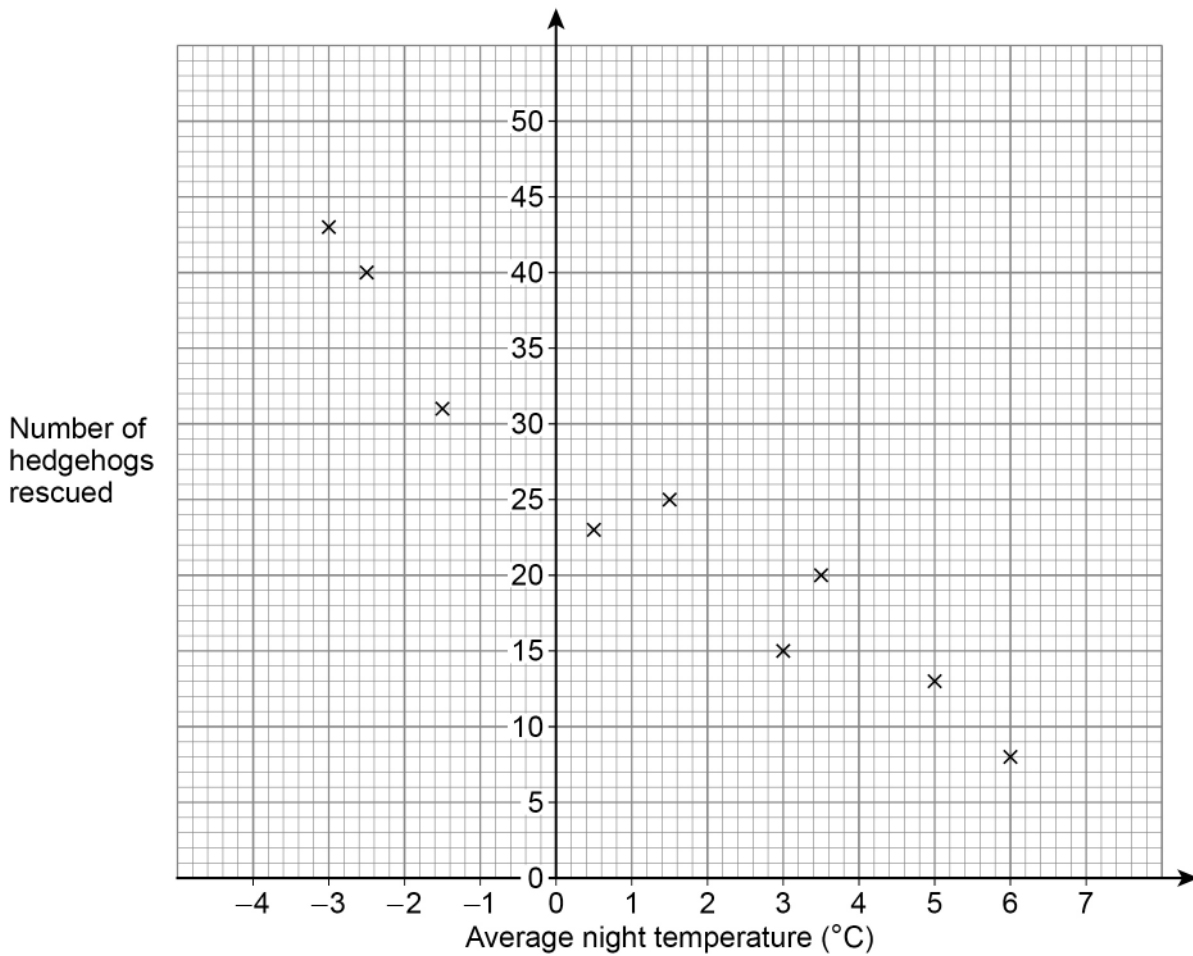
Question 9 continues on the next page

Turn over ►



Each week Aahad records the number of hedgehogs rescued and the average night temperature that week.

The scatter diagram shows information for the last 9 weeks.



- 9 (c) Describe the relationship between average night temperature and number of hedgehogs rescued.

[1 mark]



9 (d) In week A the average night temperature was -2°C
In week B the average night temperature was 4°C

Use the scatter diagram to estimate how many **more** hedgehogs were rescued in week A than in week B.

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

[4 marks]

Answer _____

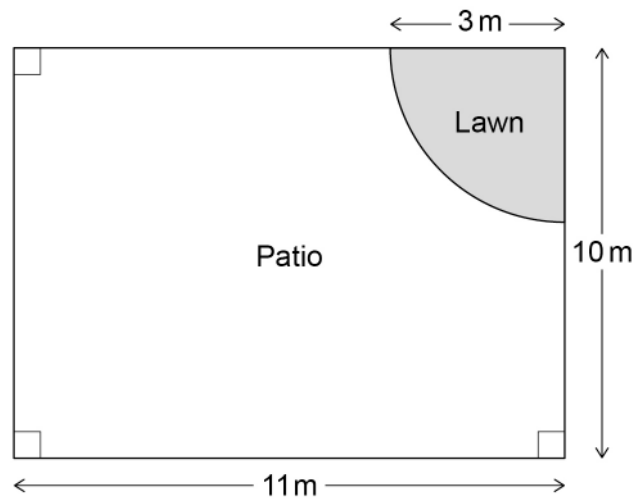
13

Turn over for the next question

Turn over ►



10 (b) David is going to clean the patio.



Not drawn
accurately

The lawn is a quarter circle with radius 3 m

Each bottle of cleaner

cleans 15 m^2 of patio

costs £1.95

Work out the cost of the bottles of cleaner that David needs to clean the patio.

You **must** show your working.

[6 marks]

Answer £ _____

Question 10 continues on the next page

Turn over ►



There are no questions printed on this page

*Do not write
outside the
box*

**DO NOT WRITE ON THIS PAGE
ANSWER IN THE SPACES PROVIDED**





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