



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.

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362 Essex Road
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020 7354 5655

BOOK YOUR FUNCTIONAL SKILLS EXAM NOW!

TQUK Functional Skills Qualification in Maths at Level 2

Examination Past Paper 3

Please complete the details below using black or blue ink. Use **BLOCK CAPITALS**.

Learner Name: _____

Learner Number: _____

Date: _____

Centre Name: _____

Instructions:

- Read each question **carefully**
- Answer **all** questions
- Write your answers **clearly** in the spaces provided
- **Check** your answers.

Information:

- This examination has **two** sections. These are clearly labelled
- You are **not allowed** to use a calculator for Section A
- You **are allowed** to use a basic calculator for Section B
- The **maximum** mark for this examination is 60
- The marks available for each question are shown in **bold** beneath each question.

Items:

- You **will need** a pen with black or blue ink, a pencil, a ruler and an eraser (for diagrams, graphs and charts only)
- You **will need** a basic calculator for Section B only
- You **will need** a protractor and a compass
- You **will not** need any other stationery or equipment.

Time allowed:

30 minutes for Section A (Non-calculator)

90 minutes for Section B (Calculator)

Do not open this examination paper until you are told to do so.

For examiner use only

	Marks available	Marks awarded	Second marks
Section A	15		
Section B	45		
Total marks	60		

This page is intentionally left blank.

Section A: Non-calculator

There are **15 marks** available in this section.
You must **not** use a calculator in this section.
You will have **30 minutes** to complete this section.



1. Work out $0.238 + 0.05$

--

Answer	
--------	--

[1]

2. Work out 0.8×0.222

--

Answer	
--------	--

[1]

Questions continue on the following page

3. A company has 200 employees and 2 offices.

Employees are split across both offices as shown in the table below:

	Office A	Office B
Part-time employees	64	48
Full-time employees	16	72

One person is chosen at random.

What is the probability that the person chosen works full time in office B?

Give your answer as a percentage.

Answer	%

[2]

4. Round 39.4528 to the nearest whole number.

Use your rounded number to **estimate** the answer to 39.4528×2

Show your working.

Answer	

[2]

5. Idris sees this mobile phone in a sale:

Mobile phone

Was £95.00

Now 12% off

How much money will Idris save buying the phone in the sale?

--

Answer	£
---------------	---

[2]

6. Work out $10^2 - 25 \times 4$

--

Answer	
---------------	--

[2]

Questions continue on the following page

7. Work out:

$$5\frac{1}{3} + 4\frac{1}{5}$$

Give your answer as a mixed number.

--

Answer	
--------	--

[2]

8. Alex has just been on a cruise:

- the cruise ship travelled 4320 miles
- it took 10 days of non-stop sailing.

Alex thinks the average speed of the cruise ship was 20 miles per hour.

Is Alex correct?

Show how you decide.

--

Answer	
--------	--

[3]

End of Section A.

Section B begins on Page 6.

Past Paper

Section B: Calculator

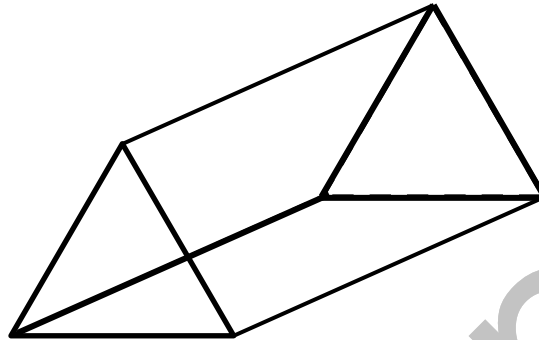
There are **45 marks** available in this section.

You **can** use a basic calculator in this section.

You will have **90 minutes** to complete this section.



1. What is this shape?



Answer	
---------------	--

[1]

2. Put these numbers in order starting with the lowest:

1 025 600

-102 560

-85 956

1 102 560

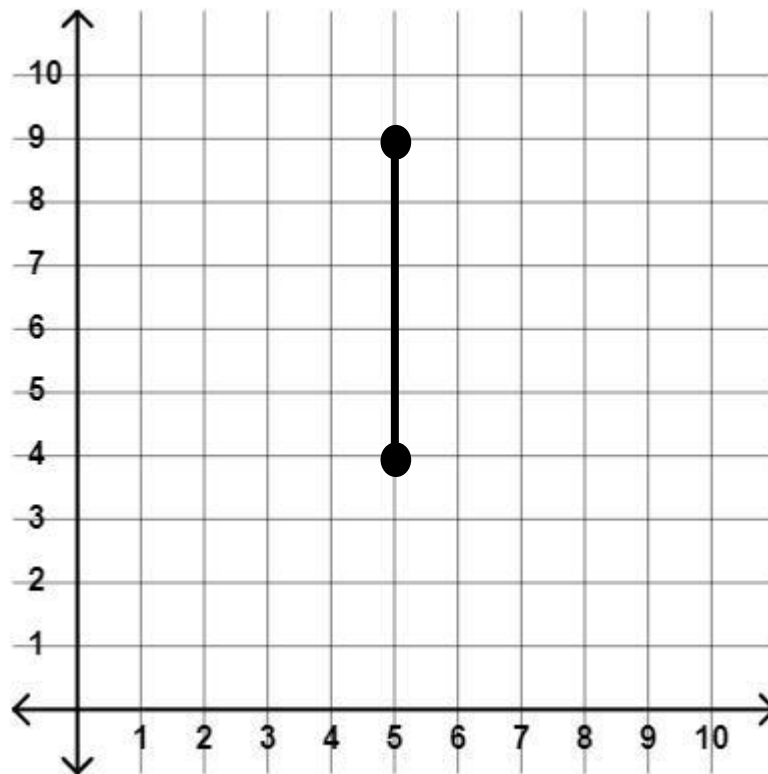
Answer				
	Lowest			Highest

[1]

3. Ezra is going to put a shed in a garden.

The shed is in the shape of a square.

The coordinate grid shows where two corners and one edge of the square will go.



What are the possible coordinates for the other **two** corners of the square?

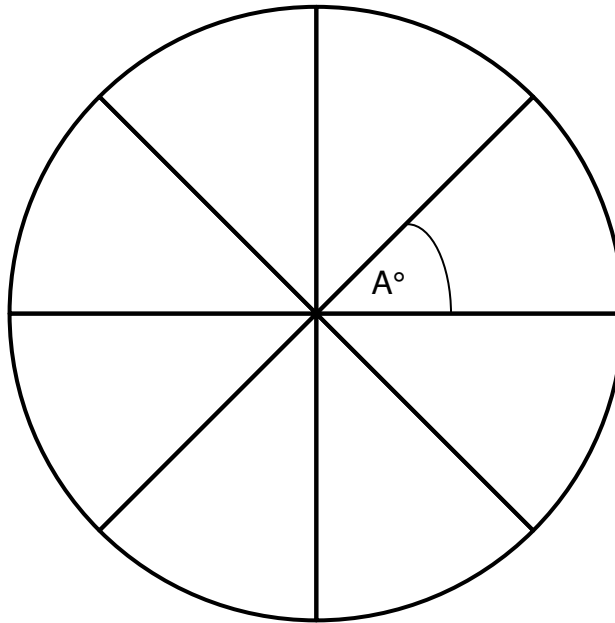
Past

Answer	(,) and (,)
---------------	---------------------------------

[2]

Questions continue on the following page

4. A circle is divided into 8 equal sections as show below:



Calculate the value of A.

--

Answer

°

[2]

5. Write this fraction:

$$\frac{29}{40}$$

(a) as a decimal

(b) as a percentage.

Answer	(a) Decimal:	(b) Percentage:

[2]

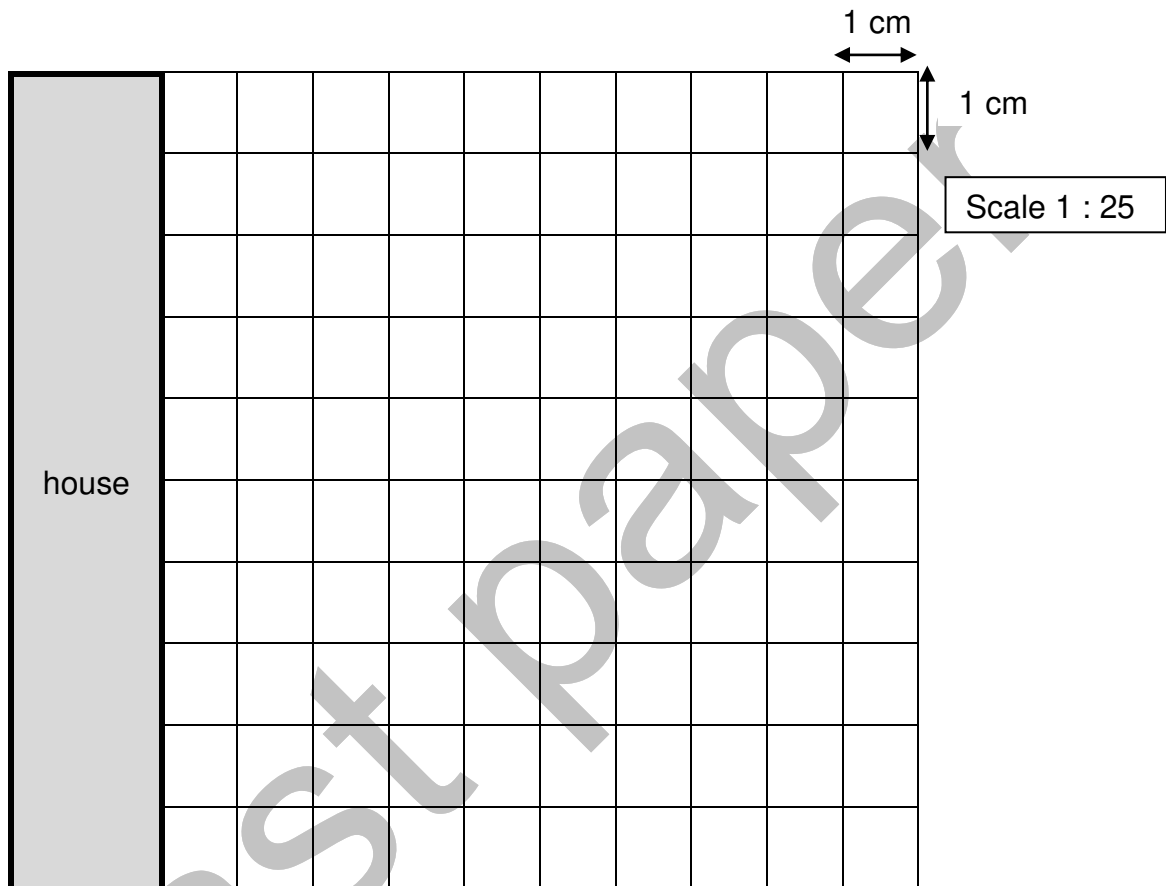
Questions continue on the following page

6. Charlie wants to build a pond in a garden.

The pond needs to be a rectangle with:

- a length of 2 metres and a width of 1 metre
- **at least** 1 metre away from the house.

Draw a possible position for the pond on the scale diagram below:



[2]

7. Last year 825 500 people visited a museum.

The manager is set a target to increase the number of visitors by 22%.

The manager thinks this will be more than 1 005 000 visitors.

Is the manager correct?

Show how you decide.

Blank area for the student's answer.

Answer

[3]

Questions continue on the following page

8. Leslie needs to put a fence around a pond.

The pond is in the shape of a circle with a diameter of 4.26 meters.

Leslie buys 13.5 metres of fencing.

Has Leslie bought enough fencing?

Show how you decide.

Use $\pi = 3.14$

Past paper
Answer

[3]

9. Taylor books a holiday.

The next day, their friend books the same holiday for £690 **after** receiving a 4% discount.

How much more did Taylor pay for the holiday?

--

Answer	£
--------	---

[3]

Questions continue on the following page

10. Chen sells cakes.

The table below shows the ingredients in one cake:

Ingredient	Grams
Flour	275
Sugar	200
Baking powder	5

A customer wants to know what fraction of the cake is sugar.

Chen tells the customer $\frac{7}{12}$

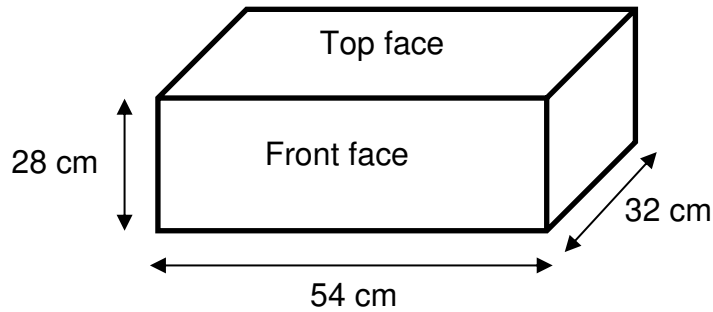
Is this correct?

Show how you decide.

Answer	

[3]

11. Lee wants to paint the front face and top face of this cuboid as part of an art project:



Not drawn to scale

Lee will paint yellow, green and white stripes in the ratio 5 : 3 : 2

How much of the cuboid will be painted yellow?

Give your answer in square centimetres (cm²).

Answer

cm²

[4]

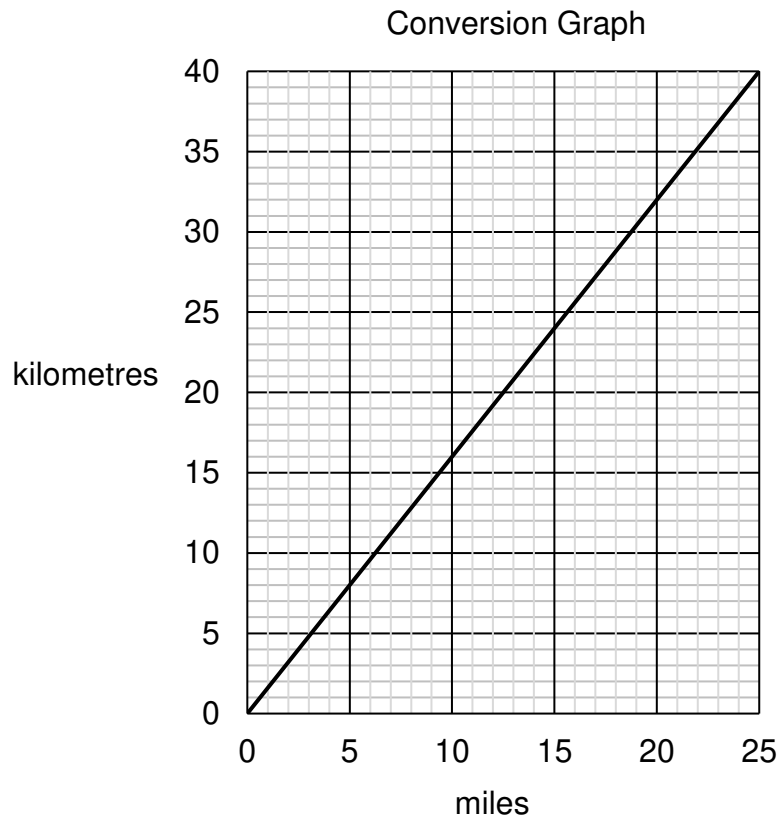
Questions continue on the following page

12. Harper is planning a road trip with this information:

- the total distance is 1600 **kilometres**
- Harper only wants to drive a maximum of 225 **miles** each day.

How many whole days will Harper need to complete the 1600 km?

Use this graph to convert between kilometres and miles.



Show your working.

Answer

days

[4]

13. Over a period of six weeks, Jamie sold chocolate cupcakes and lemon cupcakes.

The number of chocolate cupcakes Jamie sold each week is shown below:

Number of chocolate cupcakes sold					
Week 1	Week 2	Week 3	Week 4	Week 5	Week 6
91	85	64	68	100	72

The number of lemon cupcakes Jamie sold is summarised below:

Lemon cupcakes sold	
Mean number sold per week	84
Range	20

Jamie claims:

- "On average, I have sold more chocolate cupcakes per week"
- "The chocolate cupcake sales are more consistent".

Are both of Jamie's claims correct?

Give reasons for your answers.

Show working here:

Reason - claim a):

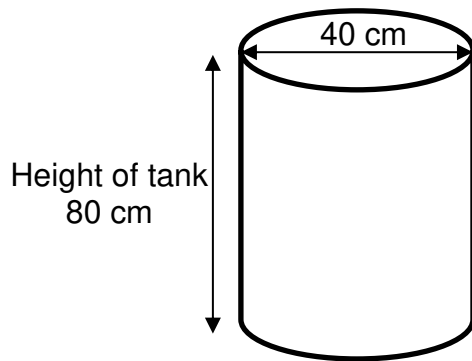
Reason - claim b):

[4]

Questions continue on the following page

14. Ali is setting up a saltwater fish tank.

The fish tank is in the shape of a cylinder.



Not drawn to scale

Ali uses this formula to work out how many grams of salt to add to the tank:

$$\text{Amount of salt in grams} = \left(\frac{\text{volume of tank}}{1000} \right) \text{ multiplied by } 35$$

Ali thinks the tank will need more than 3.75 kilograms of salt.

Is Ali correct?

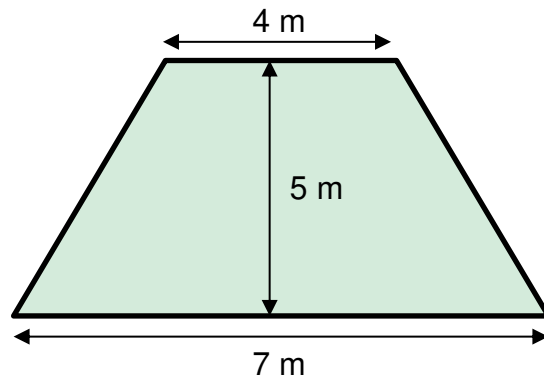
Show how you decide.

Use $\pi = 3.14$

Answer

[5]

15. Riley wants to estimate how much it will cost to lay a patio in the garden below:



Not drawn to scale

Riley finds these prices online:

Price per square metre (m ²)					
£85	£100	£75	£130	£150	£135

Riley uses the median price to estimate how much it will cost to lay the patio.

How much does Riley estimate the patio will cost?

Use:

$$\text{Area} = \frac{(a+b)h}{2}$$

Show your working.

Answer box is on the next page

--

Answer	£
---------------	----------

[6]

Past paper

This is the end of the assessment.

Past Paper



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info@intechcentre.com