

TQUK Functional Skills Qualification in Maths at Level 1

Examination Past Paper 6

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 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
- 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		

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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 0.56×3

Answer	

[1]

2. Write 0.749 correct to 1 decimal place.

Answer	
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[1]

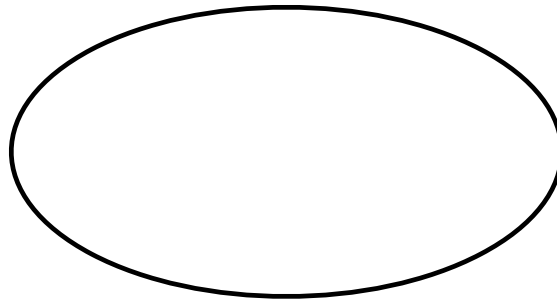
3. Work out 2.05×100

Answer	

[1]

Questions continue on the following page

4. Draw all the lines of symmetry on this shape:



[1]

5. Harper wants to walk to work on the day with the least chance of rain.

- The probability that it will rain on Monday is $\frac{3}{20}$
- The probability that it will rain on Tuesday is $\frac{1}{5}$

On which day should Harper walk to work?

Show how you decide.

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Answer	
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[2]

6. Put these fractions in order starting with the lowest:

$$3\frac{5}{6} \quad 3\frac{1}{2} \quad 3\frac{6}{8} \quad 3\frac{3}{8}$$

Show your working.

Answer				
	Lowest			Highest

[2]

7. Convert 1876 pence into pounds.

Answer	£

[2]

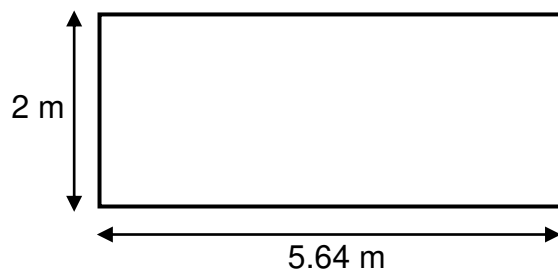
Questions continue on the following page

8. Decrease 400 by 15%.

Answer	

[2]

9. Kaden needs to put a fence around this garden:



Not drawn to scale

Kaden buys 15.5 metres (m) of fence panels.

Has Kaden bought enough?

Show how you decide.

Answer	

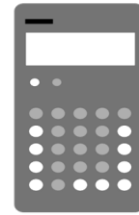
[3]

End of Section A.

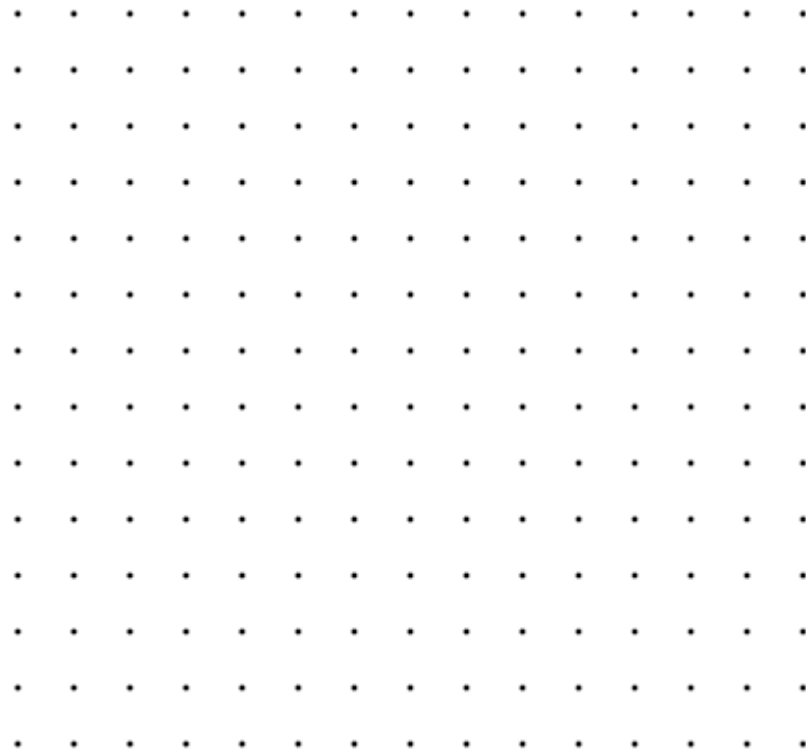
Section B begins on Page 7.

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. Draw a hexagon.



[1]

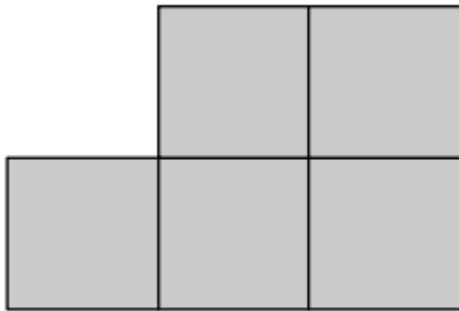
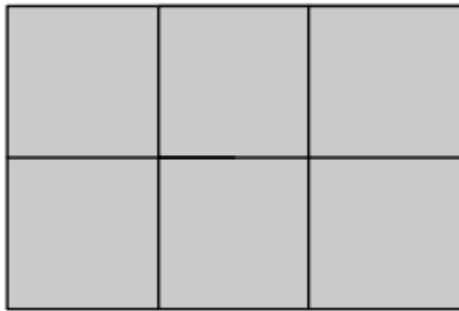
Questions continue on the following page

2. Remi wants to make a model using cubes.

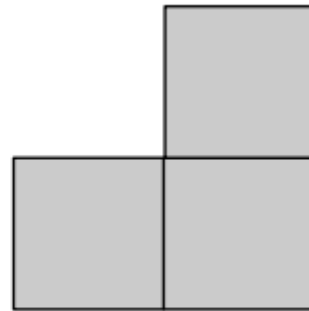
The diagram shows the plan and elevations of the model.

Calculate how many cubes Remi needs.

Plan



Front elevation



Side elevation

<div style="display: flex; justify-content: space-between; align-items: center;"> <div style="flex-grow: 1;"> <p>Answer</p> </div> <div> <p>cubes</p> </div> </div>	
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[1]

3. The temperature yesterday at noon was 3.7°C .

The temperature at midnight was 7.9°C lower than the temperature at noon.

Calculate the temperature at midnight.

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Answer

$^{\circ}\text{C}$

[2]

4. Calculate how many minutes there are in 100 days.

--

Answer

minutes

[2]

Questions continue on the following page

5. Orange juice and lemonade are mixed in the ratio 1 : 7 to make a drink.

How many millilitres of orange juice are needed to make 2.4 litres of the drink?

Answer	
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	ml
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[3]

6. A GP surgery has 105 appointments that can be booked in advance each week.

This is one sixteenth of the total number of available appointments each week.

How many appointments are there each week in total?

Show your working.

Answer	
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[3]

7. Alex wants to send a parcel.

Alex finds these two delivery companies online:

Company A	Company B
2350 parcels delivered last week	2200 parcels delivered last week
90% delivered on time	95% delivered on time

Which company delivered more parcels on time?

Show how you decide.

Answer	

[3]

Questions continue on the following page

8. Zuri is playing a card game.

A win is any card equal to 20%.

Zuri chooses a card at random from the 7 available.

Work out the probability of a win.

Give your answer as a fraction.

$\frac{1}{6}$	4×5	$\frac{1}{20}$	0.2
0.02	$\frac{1}{5}$	$\frac{1}{2}$	

Show your working.

Answer	

[3]

9. Jiang puts £4500 into a new savings account.
- The savings account pays simple interest at 5% per year.
- Jiang hopes to have £5500 after 4 years.
- Will Jiang reach the target?
- Show how you decide.**

<div style="text-align: right; padding-right: 10px;">Answer</div>	
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[4]

Questions continue on the following page

10. Ali, Billie and Cassidy ate at a restaurant.

The bill came to £60.00

A service charge of 10% was added to the bill.

Ali paid $\frac{2}{3}$ of the total amount.

Work out how much Ali paid.

Working area for the problem.

Answer	£
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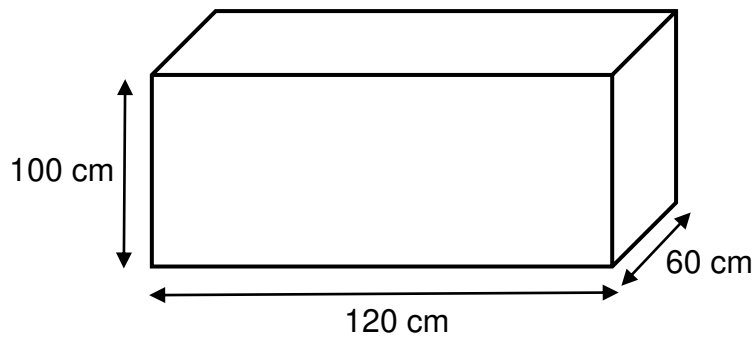
[4]

- | Time (minutes) | Number of clients |
|----------------|-------------------|
| 1 – 30 | 6 |
| 31 – 60 | 54 |
| 61 – 90 | 12 |
| 91 – 120 | 8 |

1 – 30
31 – 60
61 – 90
91 – 120

Questions continue on the following page

12. Riley needs to fill this cuboid tank with water.



Not drawn to scale

Riley pours six hundred thousand five hundred cubic centimetres (cm^3) of water into the tank.

Riley thinks 115 000 more cubic centimetres of water are needed to fill the tank completely.

Is Riley correct?

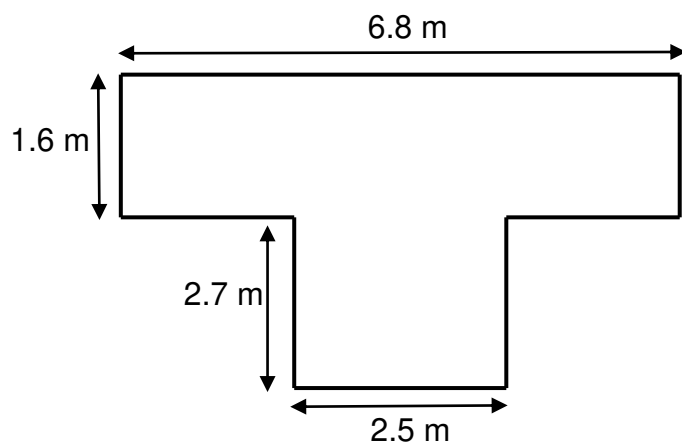
Show how you decide.

Past paper

Answer

[5]

13. The diagram shows the plan view of a living room floor.



Not drawn to scale

One carpet tile covers 0.5 square metres.

The carpet tiles can be cut to size once bought.

What is the minimum number of carpet tiles needed to cover the whole floor?

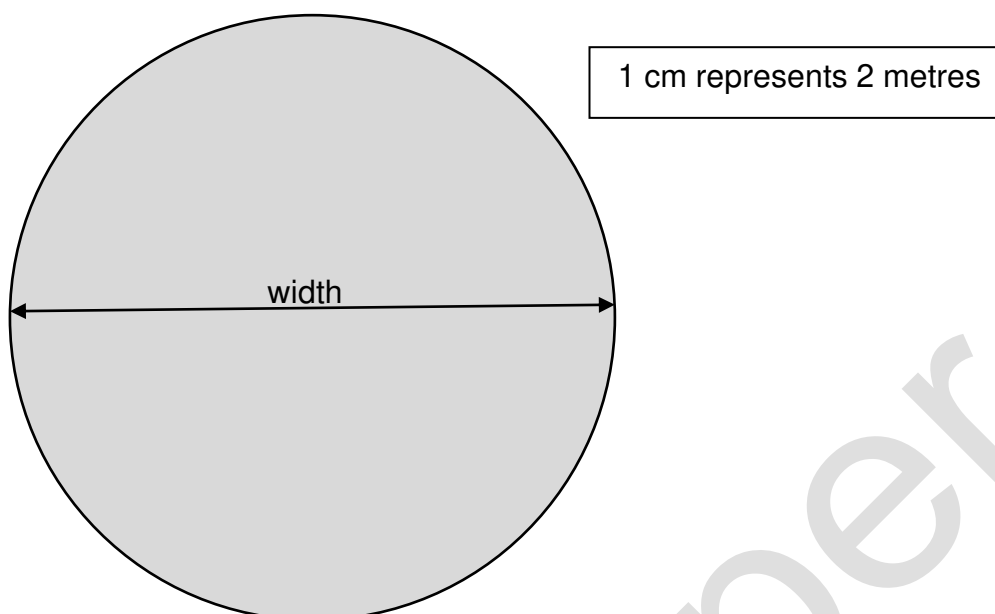
Show your working.

Answer

[5]

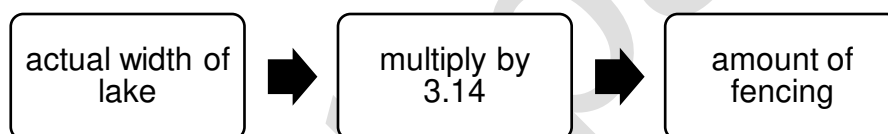
Questions continue on the following page

14. The diagram is a scale drawing of a circular lake.



Sasha needs to put a fence around the lake.

Sasha uses this rule to work out how much fencing is needed in total:



Sasha has 50 metres (m) of fencing.

Does Sasha have enough fencing?

Show how you decide.

Answer box is on the following page

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Answer	
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[5]

This is the end of the assessment.