

TQUK Functional Skills Qualification in Maths at Level 1

Examination Past Paper 9

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. Round 0.389 to one decimal place.

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Answer	
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[1]

2. Work out $78 \div 100$

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Answer	
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[1]

3. Work out -7×3

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Answer	
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[1]

Questions continue on the following page

4. Work out 4.5×3.2

	Answer
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[1]

5. Work out the total cost of this shopping list:

Item	Price
Cheese	£3.20
Bananas	44p
Apples	76p
Total	£

Give your answer in pounds (£).

	Answer £
--	------------------------

[2]

6. Calculate the range of these numbers:

3.4 2.8 6.75 1.8 5.25

Answer	

[2]

Questions continue on the following page

7. There are 20 blocks in a toy box.

There are:

- 9 red blocks
- 6 yellow blocks
- 5 green blocks.

One block is chosen at random.

What is the probability that a yellow block is chosen?

Give your answer as a fraction **and** mark your answer on the probability scale.

Answer



[2]

8. Riley sees this advert:

<p>Bike for sale</p> <p>Was £180</p> <p>Now $\frac{1}{4}$ off the price.</p>
--

Riley has £130 to spend.

Can Riley afford to buy the bike?

Show how you decide.

Answer	

[2]

Questions continue on the following page

9. Kaja buys this laptop:

Laptop
£720
Now 50% off
Pay the balance in 10 equal
monthly payments.

How much will Kaja need to pay each month?

Answer	£

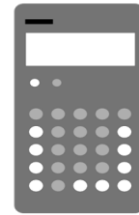
[3]

End of Section A.

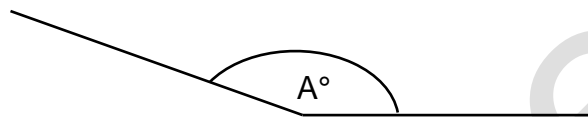
Section B begins on Page 8.

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. Measure the size of angle A:

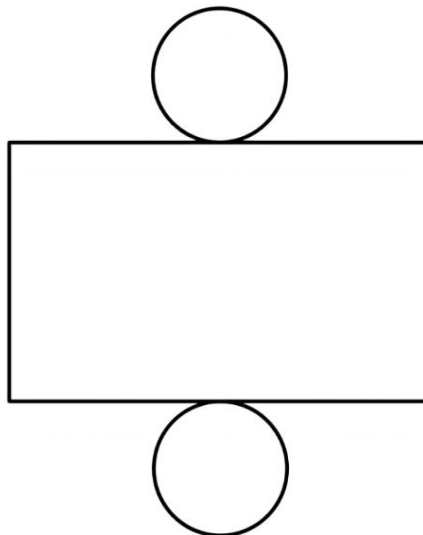


Answer	
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[1]

2. This is a net of a 3D shape:
What is this 3D shape?



Answer	
--------	--

[1]

3. Write thirteen thousand in numbers.

Answer	
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[1]

4. Work out 14^2

Answer	

[1]

5. Work out the volume of a cube with side lengths equal to 5 centimetres (cm).

Answer	cm³

[2]

Questions continue on the following page

6. Kit buys 20 metres (m) of rope and pays £5.00 in total.
Ari wants to buy 30 metres of the same type of rope.
How much money does Ari need to buy the same type of rope?

Answer	£

[3]

7. Dhaani needs to fill a 5-litre (l) jug with sparkling water.

Dhaani thinks these 4 bottles of sparkling water will be enough to fill the jug:

Bottle	Amount
A	1100 ml
B	850 ml
C	375 ml
D	2250 ml

Is Dhaani correct?

Show how you decide.

	Answer	

[3]

Questions continue on the following page

8. Jude and Alex took the same test.

The test was out of 60 marks.

Jude got $\frac{4}{5}$ of the possible marks on the test.

Alex got 75% of the possible marks on the test.

How many more marks did Jude score than Alex?

Answer	

[3]

9. Bevan bought an antique clock for £300 and an antique mirror for £240

When Bevan sold the clock, it made a 15% loss.

When Bevan sold the mirror, it made a 20% profit.

Which antique sold for the greater amount?

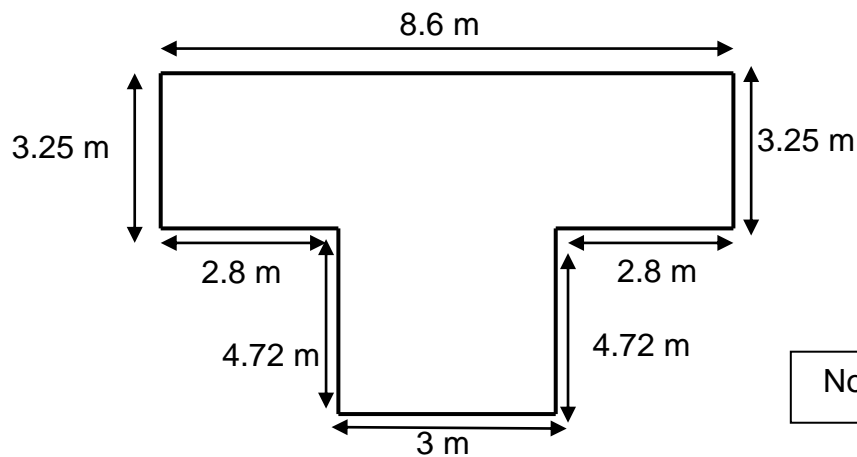
Show how you decide.

<div style="text-align: right; padding-right: 10px;">Answer</div>	
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[3]

Questions continue on the following page

10. Jamie needs to put a fence around this garden:



Not drawn to scale

Jamie will leave a gap of 0.9 metres (m) for a gate.

Jamie buys 32.5 metres of fencing.

Has Jamie bought enough fencing?

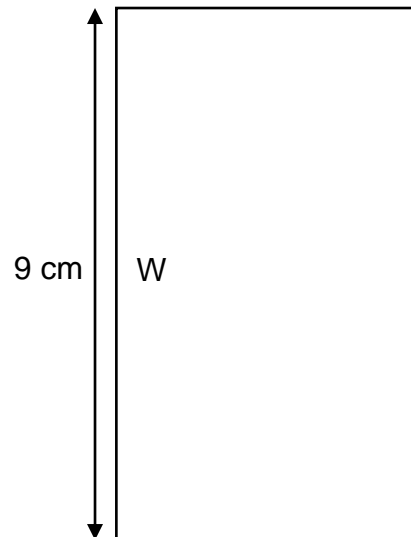
Show how you decide.

Answer

[4]

11. Ashley is designing an office.

This is a scale drawing of the office:



Scale:
2 cm represents 1 metre

Ashley wants to put bookcases along the wall labelled W.

Each bookcase is 80 centimetres (cm) wide.

What is the maximum number of bookcases that will fit along the wall?

Area for drawing or calculation.

Answer

bookcases

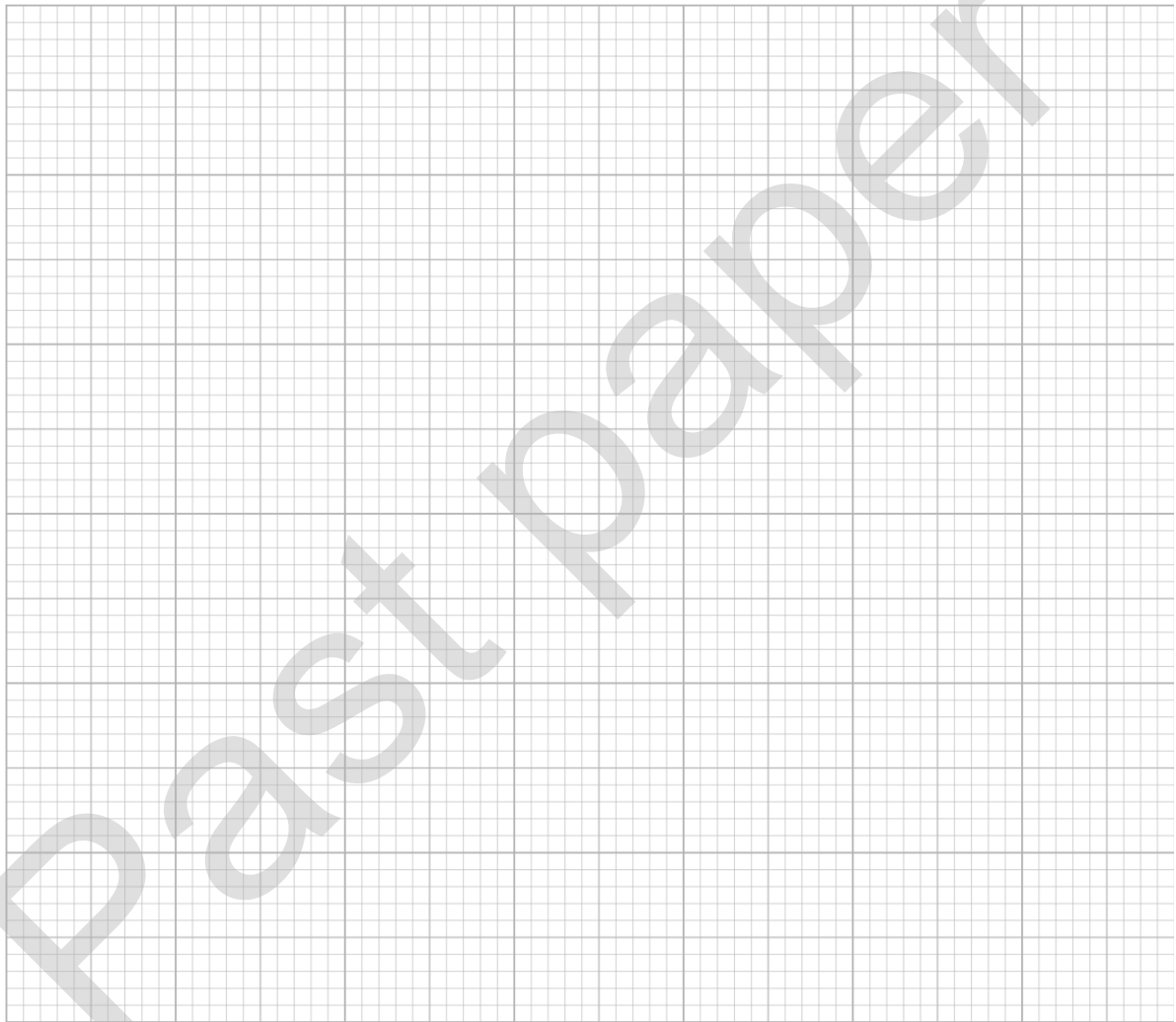
[4]

Questions continue on the following page

12. Over 5 months, Sam recorded the average monthly temperatures in degrees Celsius (°C) in Peterborough.

April	8 °C
May	16 °C
June	20 °C
July	24 °C
August	32 °C

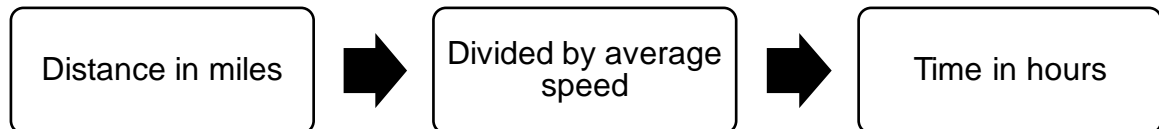
Use this information to create a bar chart.



[4]

Ainsley will:

- Ainsley uses this rule to work out how long the drive will take:



Is Ainsley correct?

Show how you decide.

[illegible]

[4]

Questions continue on the following page

14. Jordan is a builder.

The table shows the profit that Jordan made over the last 5 months after expenses:

January	February	March	April	May
£3000	£3050	£2900	£2700	£4100

In June, Jordan received £13 200 for work completed.

The ratio of profit to expenses is 1 : 3

Jordan thinks the profit received in June is more than the mean monthly profit for the first 5 months of the year.

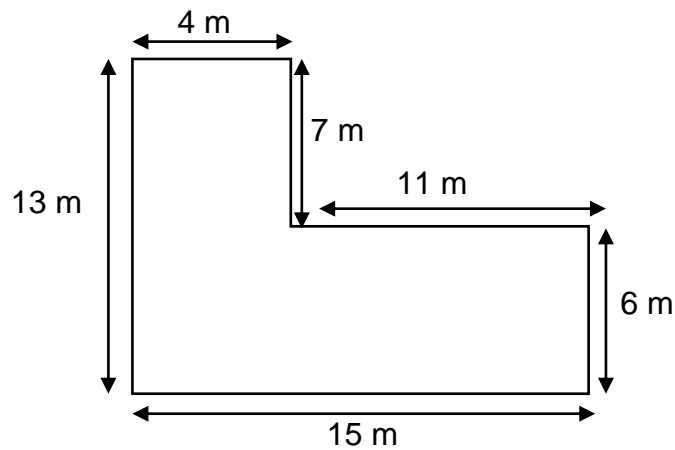
Is Jordan correct?

Show how you decide.

<div style="position: relative; width: 100%; height: 100%;"> <div style="position: absolute; top: 50%; left: 50%; transform: translate(-50%, -50%) rotate(-45deg); opacity: 0.1; font-size: 100px; pointer-events: none;">Past paper</div> </div>		Answer
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[5]

15. Kendall wants to put fertiliser on this garden:



Not drawn to scale

One bag of fertiliser will cover 40 square metres (m^2) of the garden.

Each bag costs £11.00

How much will it cost Kendall to cover the whole garden with fertiliser?

Show your working.

Answer box is on the following page

[6]

This is the end of the assessment.