TQUK Functional Skills Qualification in Maths at Level 1

Examination Past Paper 2

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		

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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 40^2

	Answer

[1]

2. Work out $4560 \div 100$

	Answer

[1]

3. Work out $0.18 + 0.3$

	Answer

[1]

Questions continue on the following page

4. Work out 87 540 – 69 810

Answer	

[1]

5. Convert 50 pence into pounds (£).

Answer	£

[1]

6. 2 centimetres (cm) represents 2400 metres (m) on a map.

What distance does 3 cm represent?

Give your answer in metres.

Answer	m

[2]

7. Round both 12.38 and 8.5 to the nearest whole number.

Use your rounded values to **estimate** the answer to 12.38 × 8.5

Show your working.

	Answer	

[2]

8. Jamie is planning a trip to a theme park.

Jamie wants to go on the day with the least chance of rain.

- the probability that it will rain on Monday is $\frac{3}{8}$

- the probability that it will rain on Tuesday is $\frac{4}{10}$

On which day should Jamie go to the theme park?
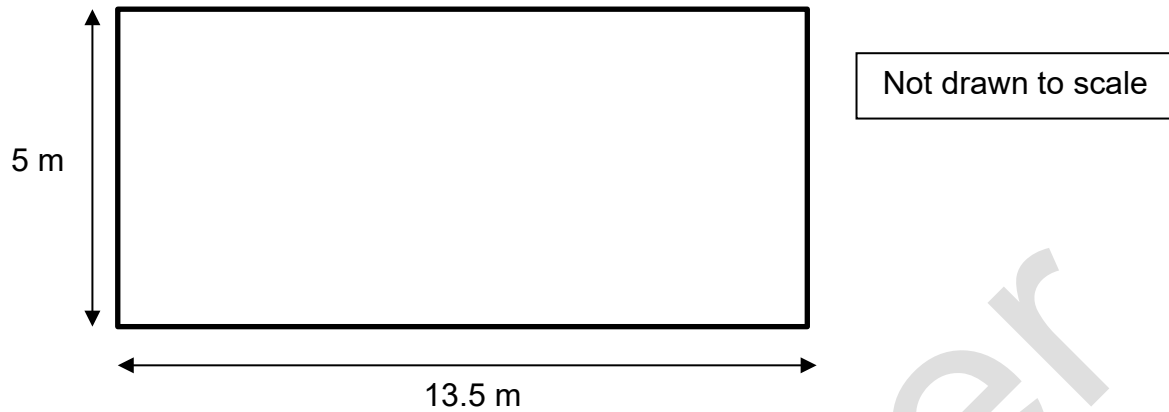
Show how you decide.

	Answer	

[2]

Questions continue on the following page

9. Hayden's drama company is putting on a play.

A plan view of the stage is shown:

Not drawn to scale

5 m

13.5 m

Each person requires a minimum of 2.5 m^2 of floor space.

How many people can be on the stage at the same time?

Show your working.

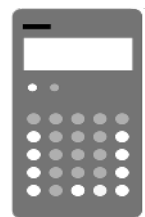|	Answer	

[4]

End of Section A.

Section B begins on Page 6.
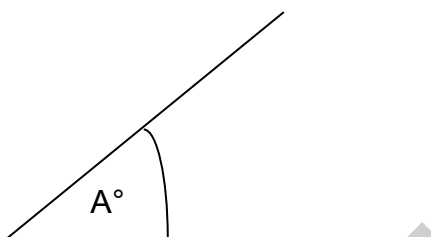
Section B: Calculator

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.
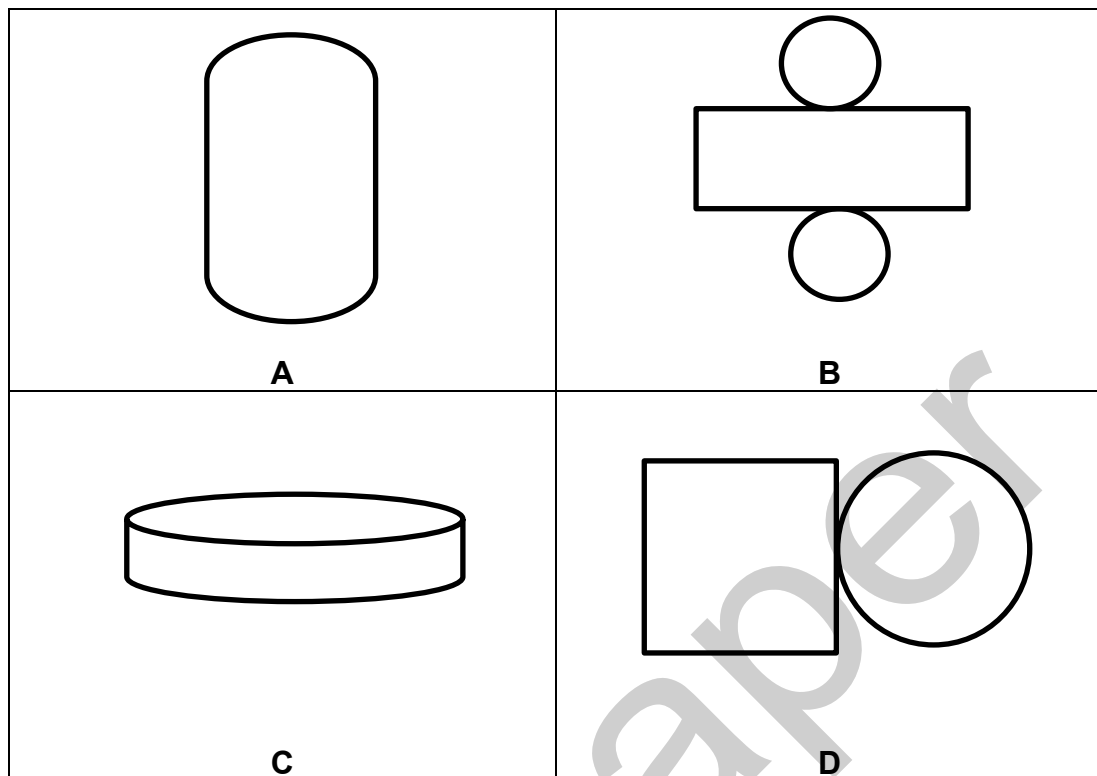
1.   Measure the size of angle A.

Answer		°

[1]

2. Which drawing shows the correct net of a cylinder?

A	B
C	D

Answer	

[1]

3. Write this fraction:

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

(a) as a decimal

(b) as a percentage.

Answer	**(a) Decimal:**	**(b) Percentage:**

[2]

Questions continue on the following page

4. Riley is cooking food.

The instructions for preparing the food say:

- cook the food for 150 minutes

- leave to stand for $\frac{1}{4}$ of an hour.

How long will it take to prepare the food in total?

Give the units in your answer.

Answer	

[2]

5. Calculate the range of these numbers:

−3   18   −5   10   12
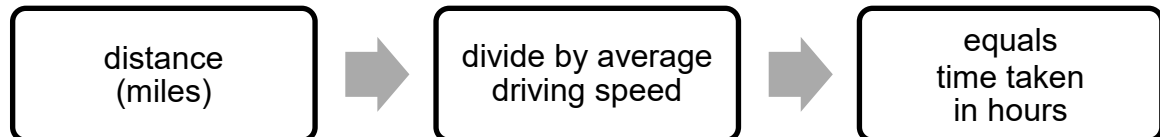
Answer	

[2]

6. Cameron is visiting a friend who lives 70 miles away. Cameron plans to leave home at 10:15 am.

The average driving speed along the road is 35 miles per hour.

Cameron uses this rule to work out how long it will take to get to their friend's house:

distance (miles)	→	divide by average driving speed	→	equals time taken in hours

Cameron tells their friend they will arrive by 12:00 pm.

Has Cameron worked out the correct time?

Show how you decide.

	Answer	

[3]

Questions continue on the following page

7. Nicky pays two thousand and fifty pounds into a new savings account.

The savings account pays 5% interest per year.

How much money will be in the savings account at the end of the first year?

Answer	**£**

[3]

8. 600 students are studying science at a college.

This is one fifteenth of the total number of students that attend the college.
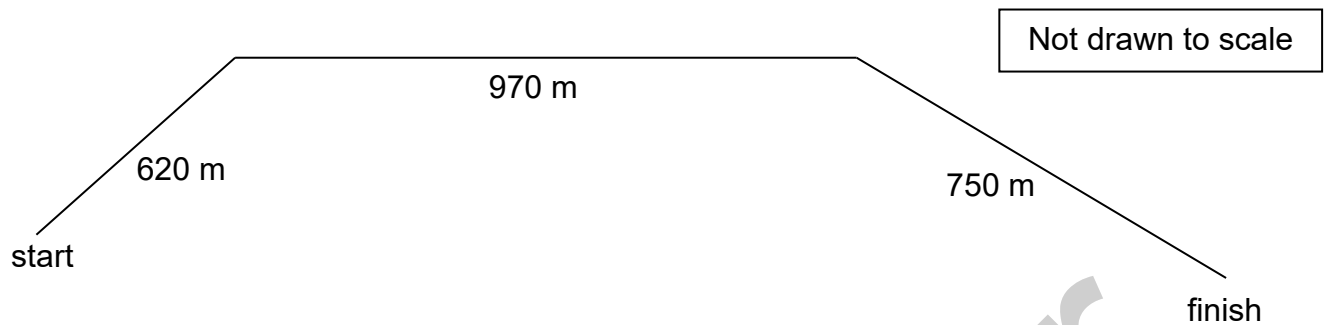
How many students attend the college in total?

Show your working.

Answer	

[3]

9. Charlie is taking part in a run.

The route of the run is shown below:

Not drawn to scale

970 m

620 m

750 m

start

finish

Charlie thinks the total distance is more than 2.5 kilometres (km).

Is Charlie correct?

Show how you decide.

	Answer	

[3]

Questions continue on the following page

10. Alex has this cake recipe:

Cake recipe
Serves 10 people

Flour	0.3 kg
Sugar	0.2 kg
Eggs	4
Butter	0.25 kg

How many kilograms (kg) of flour does Alex need to make a cake for 12 people?

	Answer	**kg**

[3]

11. Harper needs to put a fence around this garden:

15 m

Not drawn to scale

3.5 m

4.6 m

4.6 m

5.2 m
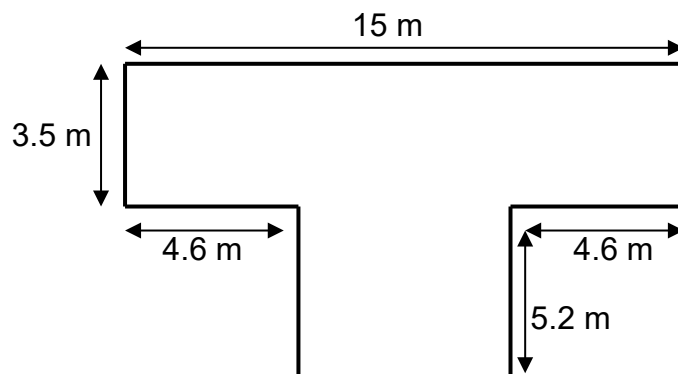
Harper thinks the total length of fence required will be less than 50 metres (m).

Is Harper correct?

Show how you decide.

| **Answer** | |

[3]

Questions continue on the following page

12. Kai has paid these amounts into a savings account in the last 6 months:

January	February	March	April	May	June
£50	£30	£40	£190	£170	£150

Kai wants to pay the same amount into the account monthly.

Kai decides to save the mean amount paid into the account in the last 6 months and an additional 10% each month.

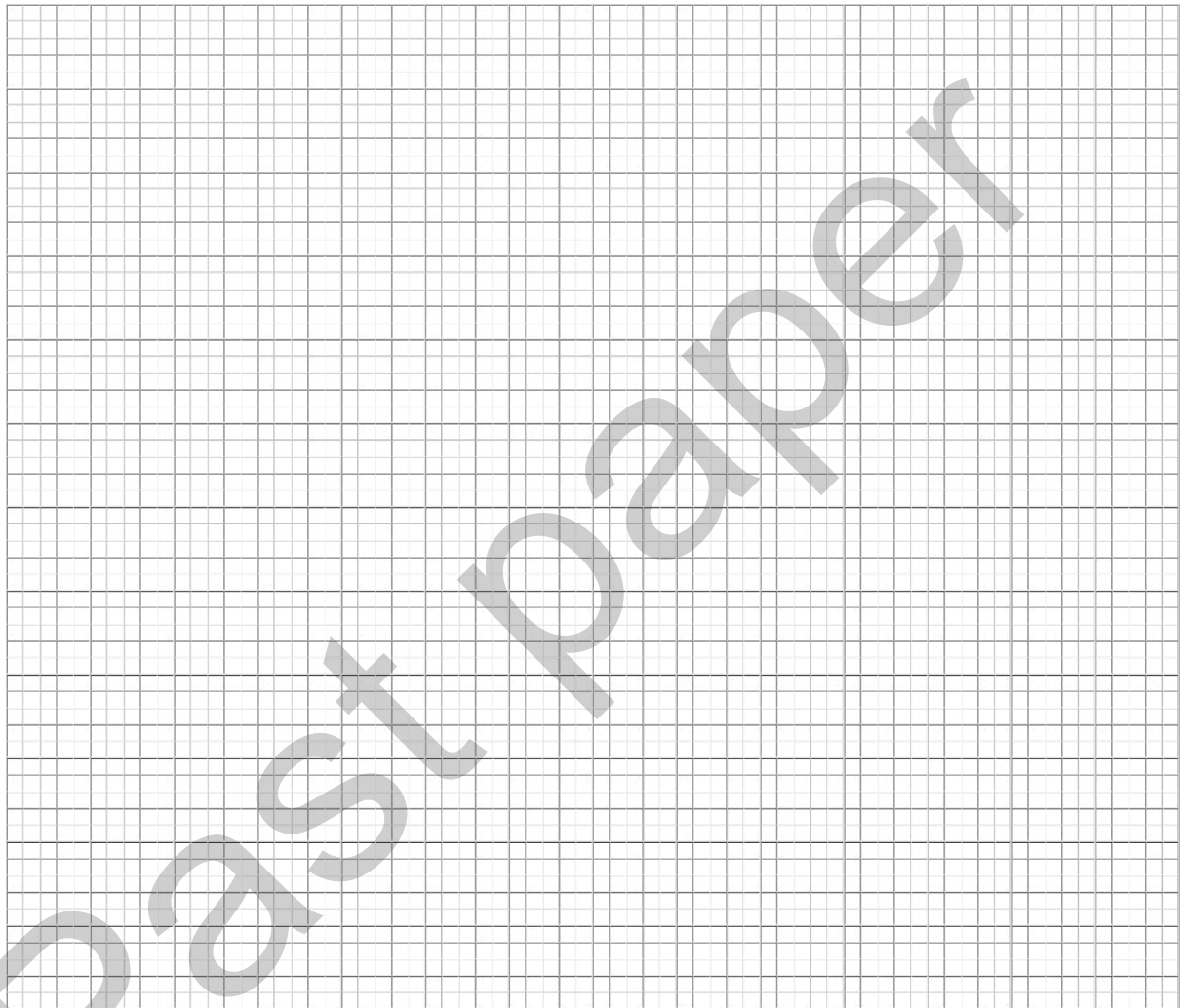How much money should Kai pay into the savings account each month?

Answer	£

[4]

13. Jude sells candles online.

The table shows how many candles Jude has sold over the last 4 months:

January	February	March	April
20	64	42	98

Use this information to create a bar chart.

[4]

Questions continue on the following page

[5]

14. A caterer needs to prepare 240 sandwiches for an event.

They need to be made on brown bread and white bread in the ratio 1 : 5

- 5% of the brown bread sandwiches need to be vegetarian

- 30% of the white bread sandwiches need to be vegetarian.

Use this information to complete the table:

	Vegetarian	Non-vegetarian	Total
Brown bread			
White bread			
Total			

Show any workings here.

[5]

15.   Quinn has a fish tank in the shape of a cube.

The tank has a side length equal to 60 centimetres (cm).

Quinn needs to fill the tank with water until it is $\dfrac{7}{8}$ full.

How many litres of water does Quinn need to pour into the tank?

Use 1 litre = 1000 cm³

| Answer | litres |

[6]

This is the end of the assessment.