

TQUK Functional Skills Qualification in Maths at Level 1

Examination Paper 5

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 0.08×10

Answer	

[1]

2. Work out 8^2

Answer	

[1]

3. Work out $8.72 + 10.4$

Answer	

[1]

Questions continue on the following page

4. Round 68.456 to the nearest whole number.

Answer	

[1]

5. Work out $12 + 10 \div 2$

Answer	

[2]

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


$$\frac{5}{8}$$

$$\frac{3}{4}$$

$$\frac{2}{3}$$

$$\frac{7}{12}$$

Show any working here:

Answer				
	Lowest			Highest

[2]

Questions continue on the following page

7. Convert 12 500 grams (g) into kilograms (kg).

	Answer	kg
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[2]

8. Stevie sells homemade items online.

The table shows the amount Stevie made in sales each month:

January	February	March	April	May	June
£1200	£800	£1180	£1575	£1430	£1350

Stevie thinks the range of these amounts is more than £1000

Is Stevie correct?

Show how you decide.

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

[2]

9. Arya is making a sculpture out of a block of ice.

The block of ice is in the shape of a cube with a side length of 25 centimetres (cm).

Arya thinks this is over 15 000 cubic centimetres (cm³) of ice.

Is Arya correct?

Show how you decide.

Answer	

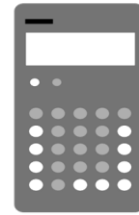
[3]

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.



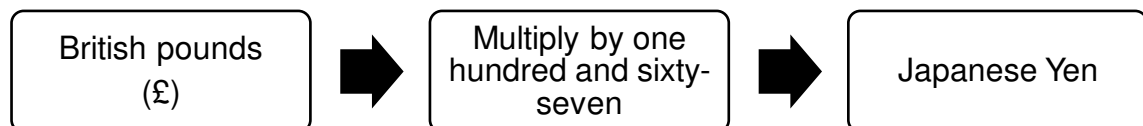
1. Jiang has 260 books and wants to give 5% to a charity shop.
 How many books should Jiang give to the charity shop?

Answer

books

[2]

2. Use this rule to convert £500 into Japanese Yen (Japanese money):



Answer

Yen

[2]

Questions continue on the following page

3. Work out how many centimetres (cm) there are in 3.7 kilometres (km).

	Answer
	cm

[2]

4. Baraka wants to buy a new coat.

Baraka sees the same type of coat for sale in two shops with the same original price.

Shop A Coat Now 18% off	Shop B Coat Now $\frac{1}{5}$ off
--	--

Which shop is offering the bigger discount?

Show how you decide.

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

[2]

5. Kim puts 48 tiles on the wall in a bathroom.

This is $\frac{1}{6}$ of the total number of tiles that need to be put on the bathroom wall.

How many tiles does Kim need to put on the bathroom wall in total?

--

Answer

tiles

[2]

6. Jesse is planning a trip to see a friend.

The train ride will take 210 minutes.

It then takes $\frac{1}{4}$ of an hour to walk to Jesse's friend's house.

What is the total time needed for Jesse to complete the journey?

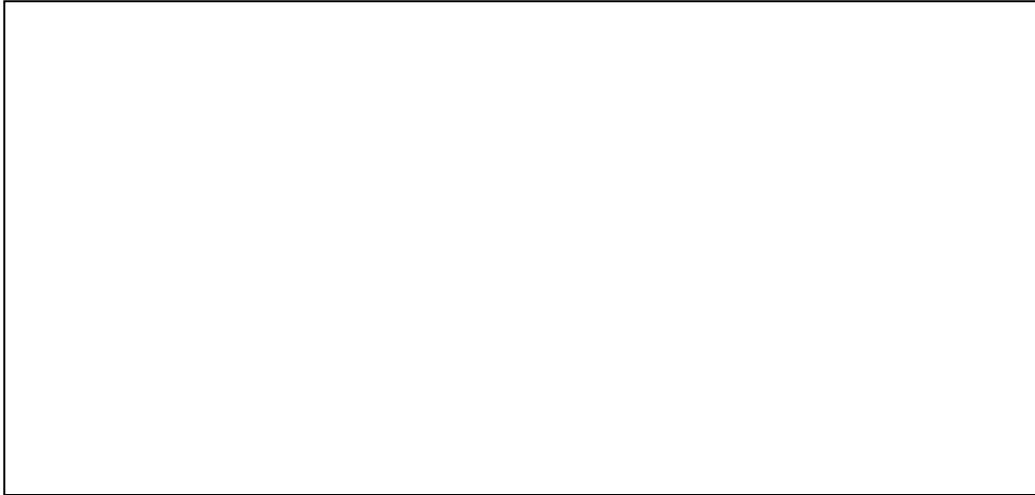
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Answer

[2]

Questions continue on the following page

- 7.** Draw a triangle which has exactly one line of symmetry.
Show the line of symmetry on your triangle.



[2]

8. Anan has a packet of 120 carrot seeds.

On the packet it says:

Approximately one fifteenth may not grow.

How many carrots will Anan have if one fifteenth of the seeds do not grow?

Answer	

[3]

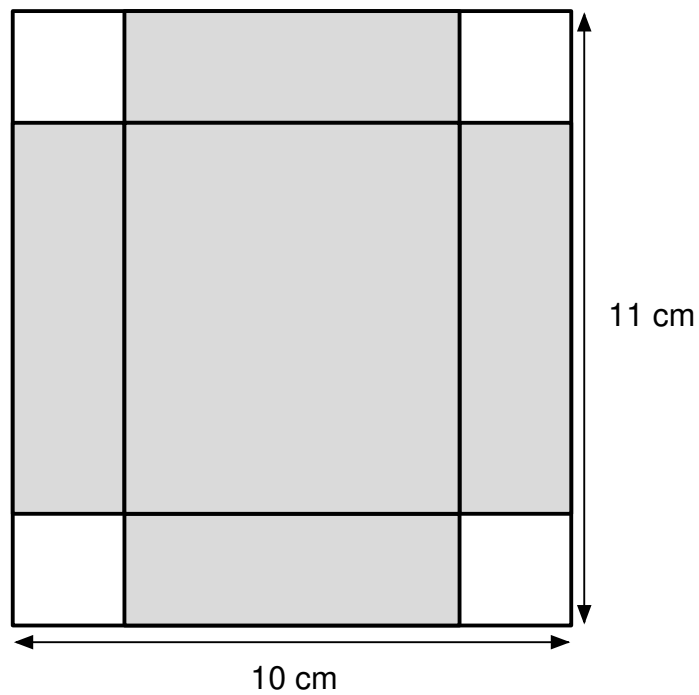
Questions continue on the following page

9. Tai is making a box from a piece of card.

The diagram shows the net of the box.

The height of the box must be 2 cm.

Work out the volume of the box.



Answer

cm³

[3]

10. Tomi's car uses 6 litres (l) of petrol to travel 120 kilometres (km).

A full tank holds 40 litres of petrol.

Does Tomi have enough petrol in a full tank to travel 700 km?

Show how you decide.

Answer	

[3]

Questions continue on the following page

- 11.** Bailey is planning a road trip.
The total distance is two thousand and eighteen miles.
Bailey will drive 25% of the distance.
How many miles will Bailey drive?
Give your answer to the nearest mile.

Answer	miles

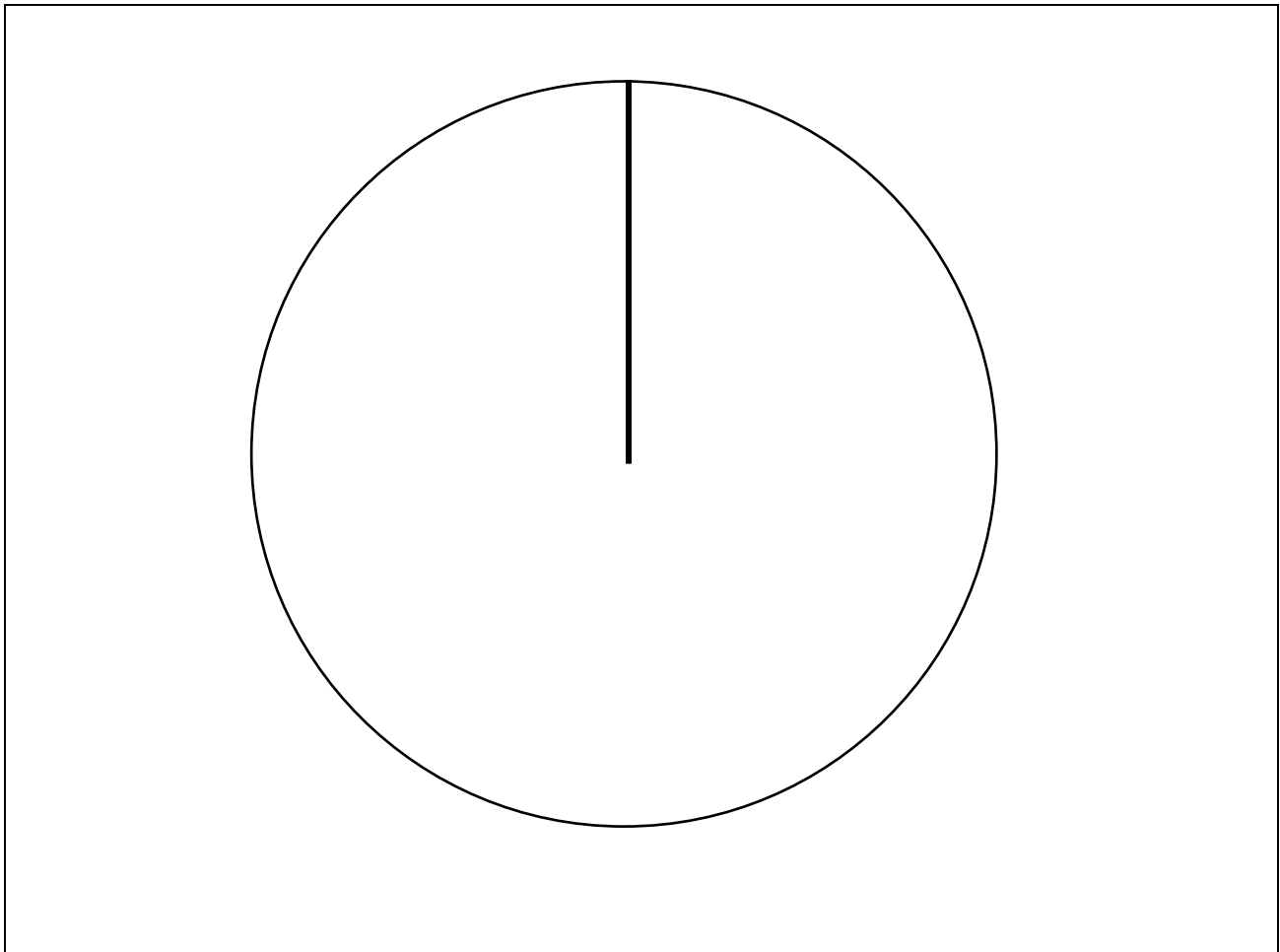
[4]

- 12.** A gym asked their customers to share their favourite exercise.

This table shows the results:

Exercise	Number of people
Deadlifts	12
Squats	18
Arm curls	6
Total	36

Show this information in a pie chart.



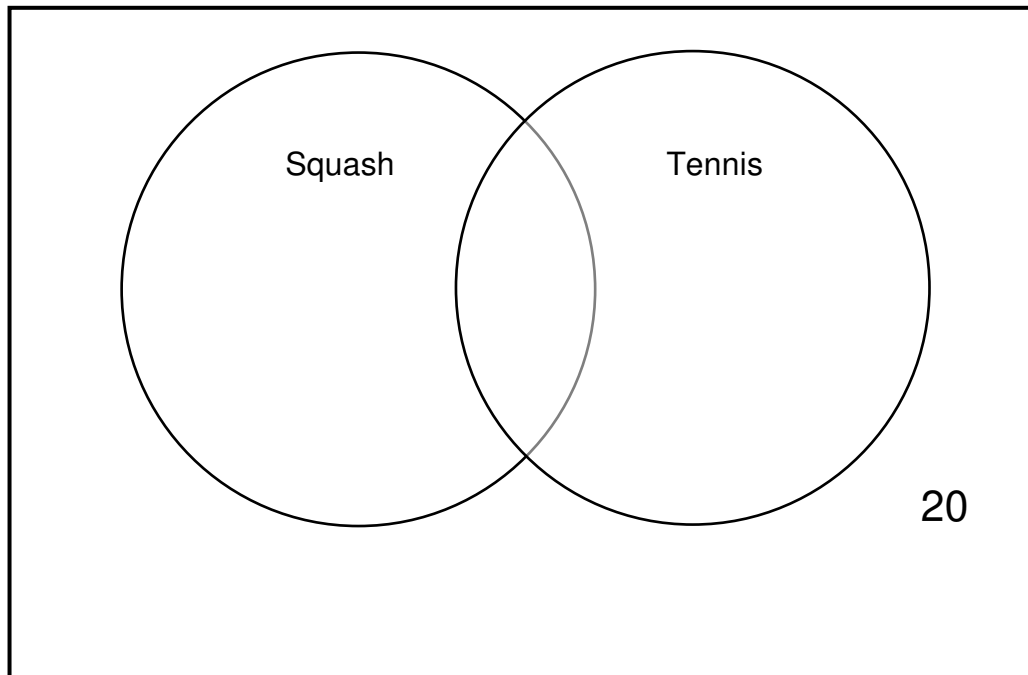
[4]

Questions continue on the following page

13. There are 60 members of a Sports Club.

- 17 people play squash in total
- 5 people play both tennis and squash
- 20 people do not play squash or tennis.

Use this Venn diagram to work out how many members play tennis.



Answer	

[4]

14. Chen has £125 to spend on books and travel in the ratio 1 : 9

The book Chen wants costs £19.00

Today there is a 35% discount on the book.

Can Chen afford to buy the book today?

Show how you decide.

Answer	
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[5]

Questions continue on the following page

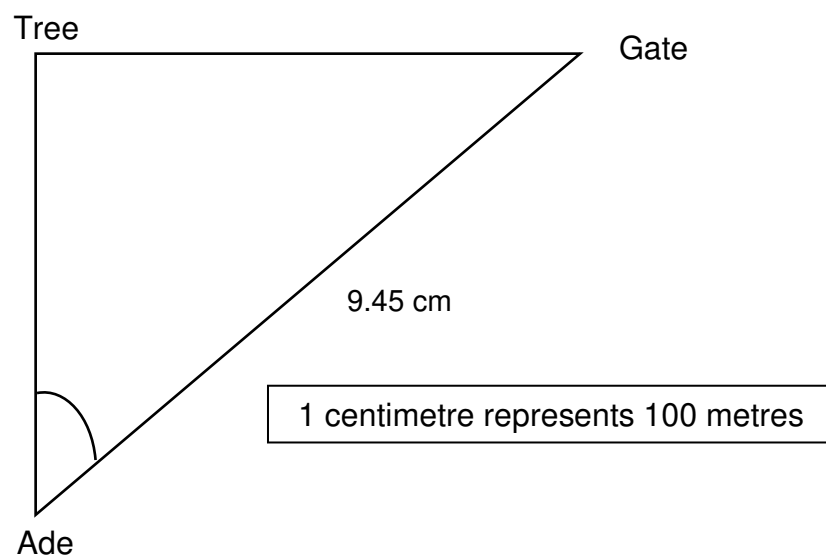
15. The scale diagram shows the position of Ade, a tree and a gate.

Ade is facing the tree and wants to walk to the gate.

How does Ade get to the gate?

Use:

- the distance to the gate rounded to one decimal place
- the angle of direction Ade should turn
- the distance to walk to the gate.



Answer box is on the following page

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Answer	
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[5]

This is the end of the assessment.