

TQUK Functional Skills Qualification in Maths at Level 1

Examination Past Paper 7

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 7^2

Answer	

[1]

2. Work out $3846 \div 100$

Answer	

[1]

Questions continue on the following page

3. Work out $2.28 + 1.11$

Answer	

[1]

4. Round 3.147 to two decimal places.

Answer	

[1]

5. How many minutes are there in 2.5 hours?

Answer	minutes

[2]

6. Decrease 600 by 25%

Answer	

[2]

7. Work out the mean of these numbers:

1250 8500 9000 1250 6000

Answer	

[2]

Questions continue on the following page

8. Taraji needs 1800 millimetres (mm) of wood to make a large window frame.

Taraji buys 18 metres (m) of wood.

Has Taraji bought the exact amount of wood needed to make the frame?

Show how you decide.

Answer	

[2]

9. Leigh sells T-shirts.

Leigh buys the T-shirts in packs of 10 for £80.00

Leigh wants to make 20% profit from selling each T-shirt.

How much should Leigh sell each T-shirt for?

<div style="display: flex; justify-content: flex-end; padding-right: 10px;"><table border="1" style="border-collapse: collapse;"><tr><td style="padding: 5px;">Answer</td><td style="padding: 5px;">£</td></tr></table></div>		Answer	£
Answer	£		

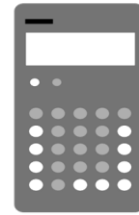
[3]

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. How many grams are in 4.2 kilograms?

Answer	grams

[1]

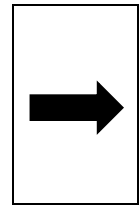
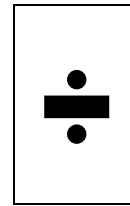
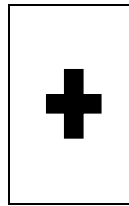
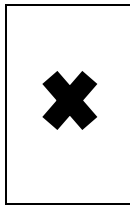
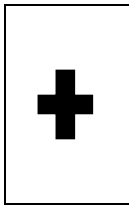
2. Write 66% as a decimal.

Answer	


[1]

Questions continue on the following page

3. Lim has some cards with shapes on:



One card is chosen at random.

What is the probability that a card with a  is chosen?

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

Answer	



[2]

4. The map shows the location of three buildings within a town.

Kai thinks that the library is less than 500 m from the cinema.

● Library

● Cinema

● Shopping centre

Map drawn to scale.
1 cm represents 100 m

Is Kai correct?

Show how you decide.

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Answer	
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[2]

Questions continue on the following page

5. The price of a dress is £54.00
In a sale the price is reduced by 15%
Work out the reduced price of the dress.

Answer	£
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[2]

6. Morgan is planning a party and looks at reviews for two different venues.

$\frac{7}{8}$ of the total number of reviewers recommend venue A.

$\frac{4}{5}$ of the total number of reviewers recommend venue B.

Morgan wants to book the venue with the highest proportion of recommendations.

Which venue should Morgan book?

Show how you decide.

Answer	
--------	--

[2]

7. A teacher records the number of pupils attending an after-school club each week for 16 weeks.

Use the data to complete the grouped frequency table.

18	24	15	22	13	16	23	21
27	10	18	23	23	28	19	25

Number of pupils	Frequency
10 – 15	
16 – 20	
21 – 25	
26 – 30	

[2]

Questions continue on the following page

8. Riley pays ten thousand and fifty pounds into a new savings account.

The savings account pays 5% interest per year.

What will be the total amount of money in the savings account at the end of the first year?

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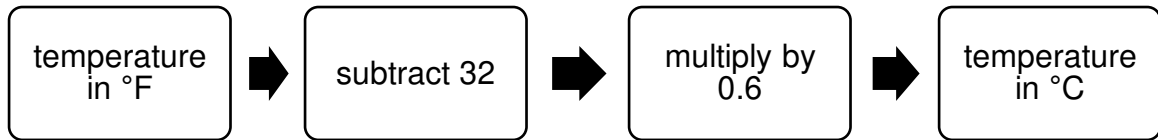
[3]

9. Ola lives in London and is going on holiday to New York.

The current temperature in New York is 59°F .

The current temperature in London is 15°C .

Ola uses this rule to convert between $^{\circ}\text{F}$ and $^{\circ}\text{C}$.



Ola says:

'It is currently hotter in London than New York.'

Is Ola correct?

Show how you decide.

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Answer	
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[3]

Questions continue on the following page

10. Joey is planting flower bulbs.

52 of the bulbs are roses.

This is one thirteenth of the total number of flower bulbs.

How many flower bulbs does Joey need to plant in total?

Show your working.

<div style="text-align: right;"><table border="1"><tr><td style="width: 150px;">Answer</td><td>flower bulbs</td></tr></table></div>		Answer	flower bulbs
Answer	flower bulbs		

[3]

- 11.** Eli has bought a fish tank in the shape of a cube with side length 30 centimetres (cm).

The instructions say to fill the tank until it is $\frac{3}{4}$ full.

How many cubic centimetres (cm³) of water should Eli pour into the tank?

Past paper	
Answer	cm³

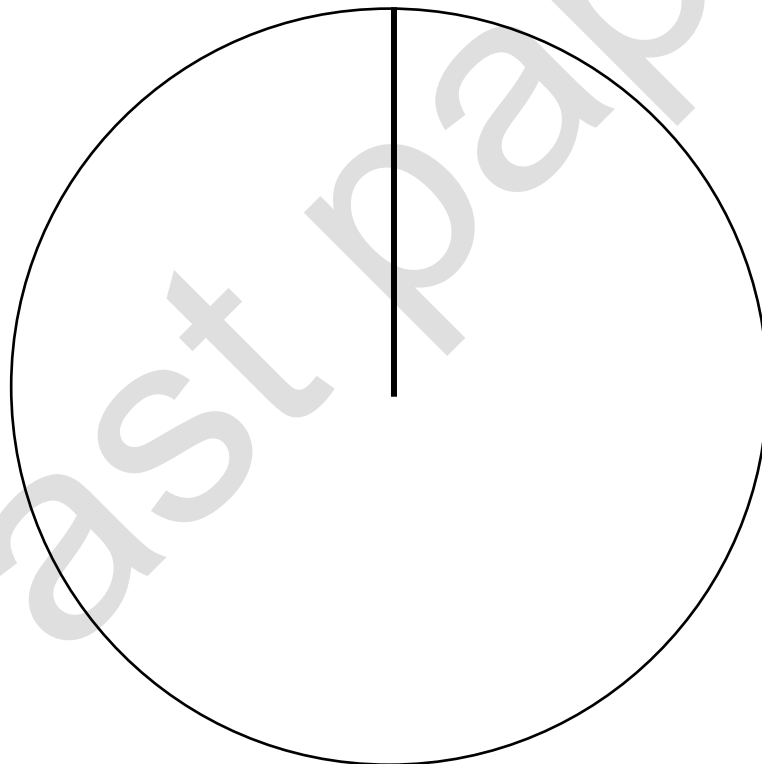
[4]

Questions continue on the following page

12. The table below shows how 120 people rated a film:

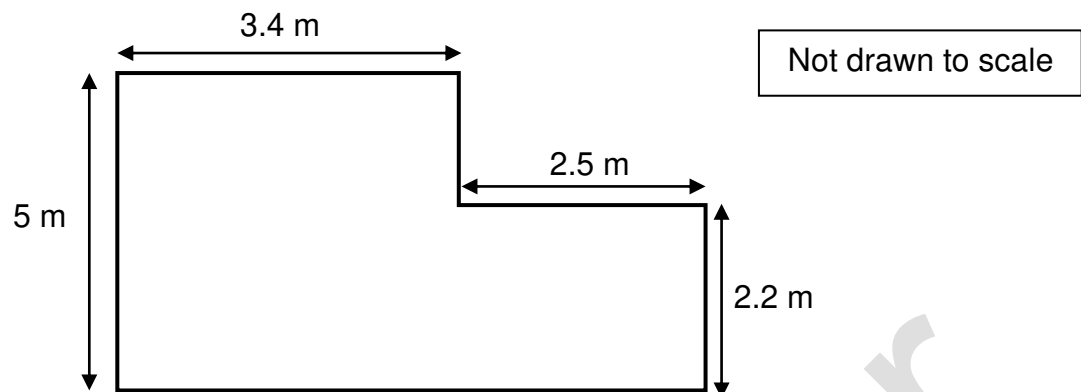
Rating	Number of people
1 star	10
2 stars	20
3 stars	30
4 stars	60
Total	120

Show this information in the pie chart below.



[4]

13. Anhar is going to paint this wall:



Anhar knows that one tin of paint can cover 4 square metres (m^2) of the wall.

How many tins of paint will Anhar need to buy?

Show your working.

Working area for the solution.

Answer

tins

[5]

Questions continue on the following page

14. 735 people attend a football match.

The ratio of children to adults is 1 : 2

A ticket for the match costs £24

Children receive a 40% discount.

The manager says:

'We have made over £3500 selling children's tickets.'

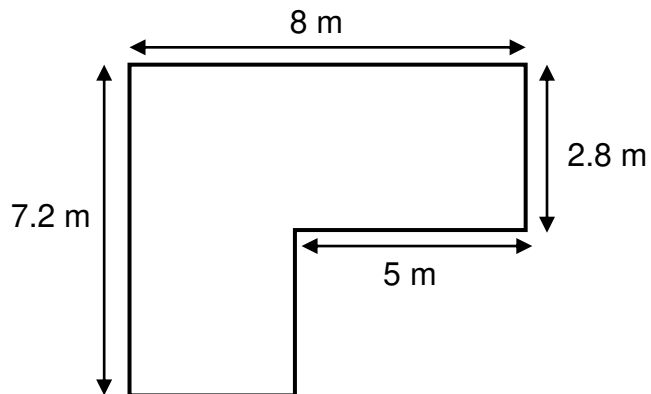
Is the manager correct?

Show how you decide.

[illegible]

[5]

15. Jesse needs to replace the fence around this garden:



Not drawn to scale

Jesse needs to leave a space for the gate.

The fence will go around 90% of the garden.

Jesse thinks the total length of the fence will be more than 27.5 metres (m).

Is Jesse correct?

Show how you decide.

Answer box is on the following page

Answer	

[6]

This is the end of the assessment.