

# TQUK Functional Skills Qualification in Maths at Level 1

## Examination Paper 3

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 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

	<b>Marks available</b>	<b>Marks awarded</b>	<b>Second marks</b>
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  $620 \times 1000$

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Answer	
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[1]

2. Work out  $6^2$

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Answer	
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[1]

3. Work out  $13 \div 10$

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Answer	
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[1]

Questions continue on the following page

4. Work out  $2840 \times 5$

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Answer	
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[1]

5. There are 20 sweets in a bowl.

There are:

- 12 lemon sweets
- 8 chocolate sweets.

One sweet is chosen at random.

What is the probability that a chocolate sweet is chosen?

Give your answer as a fraction.

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Answer	
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[1]

6. 6 centimetres (cm) represents 24 kilometres (km) on a map.

What does 8 cm represent?

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<b>Answer</b>	
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[2]

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


$$1\frac{1}{2}$$

$$1\frac{5}{6}$$

$$1\frac{2}{3}$$

$$1\frac{3}{4}$$

Show your working.

<b>Answer</b>				
	<b>Lowest</b>			<b>Highest</b>

[2]

Questions continue on the following page

8. Anan pays £1200 into a new savings account.
- The savings account pays 5% interest each year.
- How much money will be in the savings account after one year?

<b>Answer</b> £

[2]

9. Nicky has walked every day for the past 5 days. The table shows how many miles Nicky has walked:

Monday	Tuesday	Wednesday	Thursday	Friday
2.86	3.5	2.6	2.74	1.8

Nicky thinks the mean number of miles walked per day is less than 2.65 miles.

Is Nicky correct?

**Show how you decide.**

<b>Answer</b>

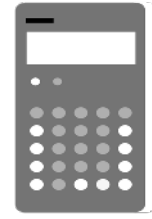
[4]

**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. What size angle is a clockwise turn from East to Southeast?

Answer	°

[1]

2. Calculate the range of these numbers:

2500      8200      9850      1050      7390

Answer	

[1]



3. Use this data to complete the grouped frequency table below:

2	42	33	18	21
35	19	40	24	37
26	20	25	59	39

Group	Frequency
1 - 20	
21 - 40	
41 - 60	
<b>Total</b>	

[2]

4. A company has 45 part-time employees.

This is  $\frac{1}{9}$  of the total number of employees that work for the company.

How many employees work for the company in total?

<b>Answer</b>	

[2]

Questions continue on the following page

5. Estimate 0.34 as a fraction.

Use your fraction to **estimate** the answer to  $0.34 \times 720$

**Show your working.**

	<b>Answer</b>
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[2]

6. Kaden wants 6 dining room chairs.

Kaden sees these offers online:

Offer A	Offer B
Set of 6 chairs	Chairs
Was £634	£138.70 each
Now $\frac{1}{8}$ off	Buy 2 Get 1 Free

Kaden wants to buy the chairs that cost the least amount of money.

Which offer should Kaden choose?

**Show how you decide.**

	<b>Answer</b>
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[3]

7. Jamie receives three thousand and fifty pounds.

Jamie wants to pay the money into a savings account and a current account in the ratio 1 : 4

How much money should Jamie pay into their savings account?

**Show your working.**

<table border="1" style="display: inline-table;"><tr><td style="width: 100px;"><b>Answer</b></td><td><b>£</b></td></tr></table>	<b>Answer</b>	<b>£</b>
<b>Answer</b>	<b>£</b>	

[3]

8. Riley's car achieves 32.5 miles per gallon (mpg).

Riley wants to increase this by 25%

How many miles per gallon does Riley want to achieve?

Give your answer to 2 decimal places.

<table border="1" style="display: inline-table;"><tr><td style="width: 100px;"><b>Answer</b></td><td><b>mpg</b></td></tr></table>	<b>Answer</b>	<b>mpg</b>
<b>Answer</b>	<b>mpg</b>	

[3]

**Questions continue on the following page**

9. Sam needs to feed some animals on a farm.

The list below shows how much animal feed is needed:

Enclosure A	5.45 kilograms
Enclosure B	950 grams
Enclosure C	800 grams

Sam thinks less than 7000 grams of animal feed are needed.

Is Sam correct?

**Show how you decide.**

**Answer**

**[3]**

- 10.** Kai goes to a safari park and see these animals:

<b>Lion</b>
Weighs 110 kg
Eats 15% of their body weight in food each day

<b>Cheetah</b>
Weighs 72 kg
Eats 20% of their body weight in food each day

Which animal eats the most food in total each day?

**Show how you decide.**

<b>Answer</b>	

**[3]**

**Questions continue on the following page**

**11.** Nilam has a doctor's appointment at 11:20 am.

The bus ride takes 45 minutes.

It is then a  $\frac{1}{4}$  of an hour walk to the doctor's clinic.

Can Nilam get to the appointment in time by catching the 10:35 am bus?

**Show your working.**

Past paper	
<b>Answer</b>	

**[3]**

12. Harper wants to paint this wall:



Not drawn to scale

Harper knows that one tin of paint will cover  $6 \text{ m}^2$

How many tins of paint will Harper need to buy to paint the whole wall?

**Show your working.**

Working area for the solution.

**Answer**

**tins**

**[4]**

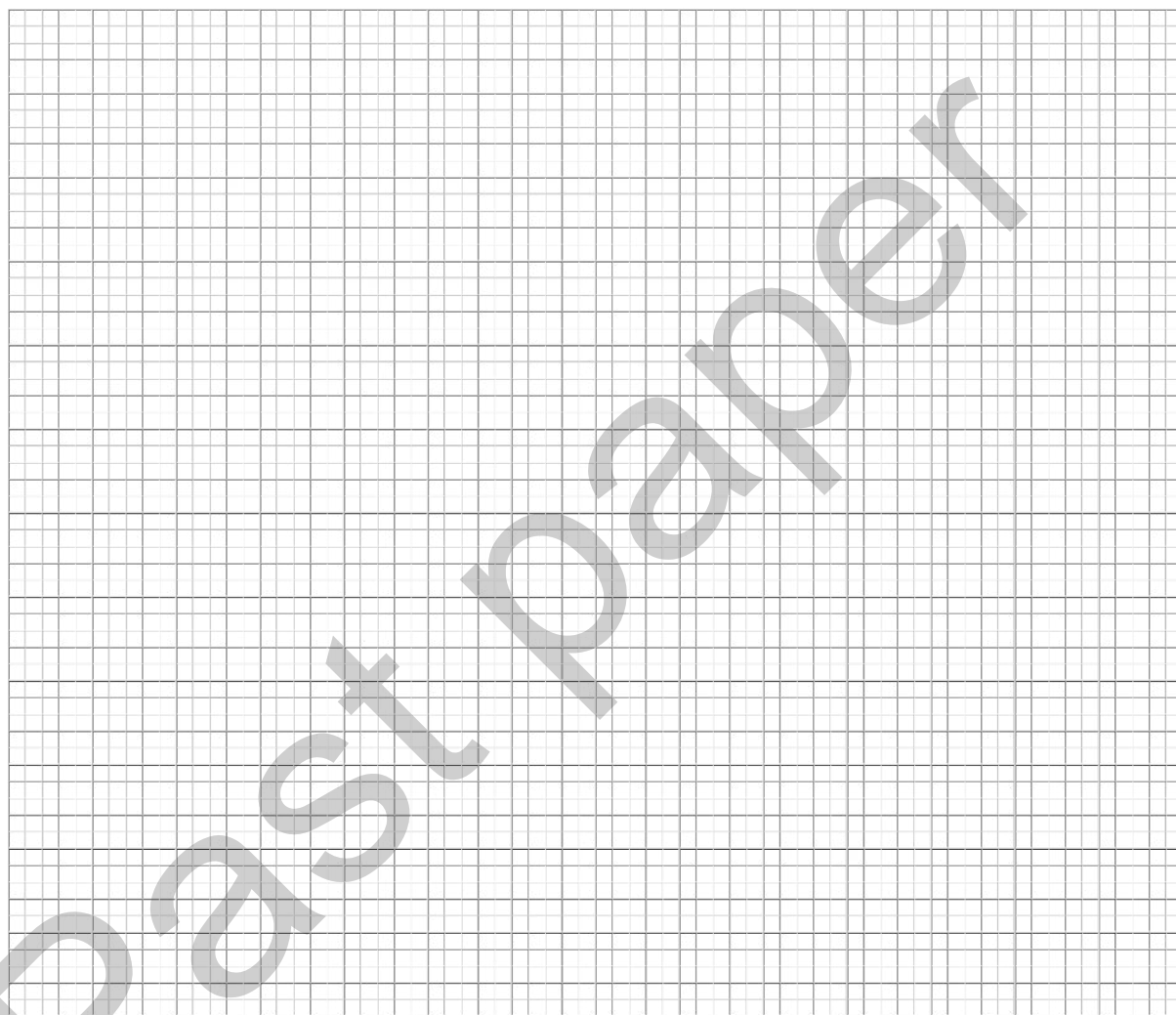
**Questions continue on the following page**

13. Luca is going on holiday to Spain.

The table below shows the temperature in Spain over the last 4 days:

Day	Monday	Tuesday	Wednesday	Thursday
Temperature °C	18°C	24°C	28°C	22°C

Use this information to create a line graph.



[4]



**14.** Alex's fish tank is in the shape of a cube.

It has a side length of 48 centimetres (cm).

Alex wants a fish tank that has a 10% smaller volume.

Alex thinks the new fish tank will hold less than 100 000 cm<sup>3</sup> of water.

Is Alex correct?

**Show how you decide.**

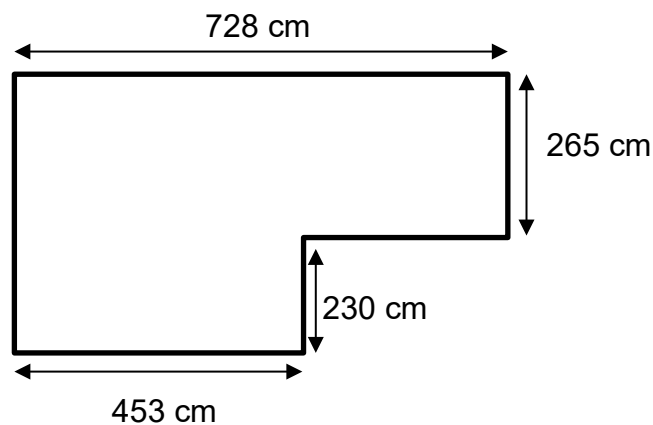
Past paper	
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<b>Answer</b>	
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**[5]**

**Questions continue on the following page**

15. Charlie wants to put string lights around this living room:



Not drawn to scale

Charlie thinks the string lights will need to be longer than 24.5 metres (m) in total.

Is Charlie correct?

**Show how you decide.**

Answer

[6]

**This is the end of the assessment.**