

# TQUK Functional Skills Qualification in Maths at Level 1



## Examination Paper (Sample Assessment Paper 1)

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  $-3 + 5$

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Answer	
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[1]

2. Work out  $9 \times 2.54$

--

Answer	
--------	--

[1]

3. Work out  $20 + 8 \times 2$

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Answer	
--------	--

[1]

Questions continue on the following page

4. Work out  $65.83 \times 100$

Answer	

[1]

5. Work out the range of these numbers:

18 259

20 912

16 879

25 050

24 250

Answer	

[2]

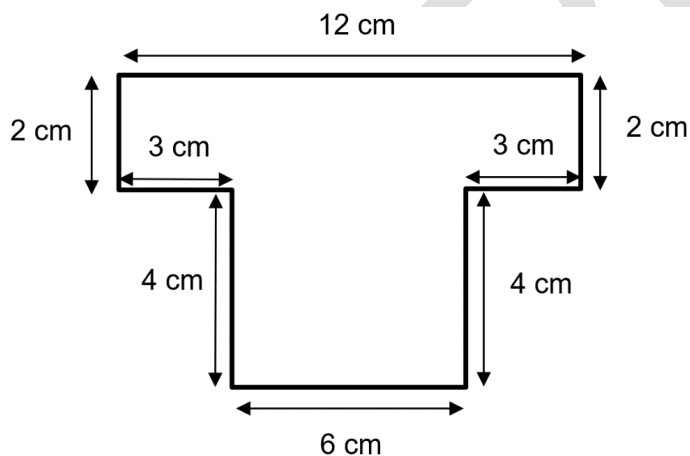
6. Lesley needs to cut a 56.2 centimetre (cm) long plank of wood into five pieces of equal length.

How long should Lesley cut each piece?

<b>Answer</b>	<b>cm</b>

[2]

7. Work out the perimeter of this shape:



Not drawn to scale

<b>Answer</b>	<b>cm</b>

[2]

Questions continue on the following page

8. A shirt normally costs £42  
It is on sale with a 30% discount.  
Calculate the new cost of the shirt.

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Answer	£
--------	---

[2]

9. Alex has a part time job.  
Alex receives £12.50 per hour and works 10 hours each week.  
Alex wants to pay  $\frac{1}{4}$  of the total amount received each week into a savings account.  
How much should Alex pay into the savings account each week?

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Answer	£
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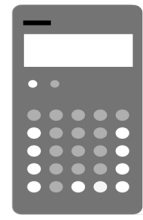
[3]

**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. Calculate  $48^2$

Answer	

[1]

2. How many pennies are there in £2.48?

Answer	pennies

[1]



3. Write this fraction:

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

(a) as a decimal

(b) as a percentage.

<b>Answer</b>	<b>(a) Decimal:</b>	<b>(b) Percentage:</b>

[2]

4. These sweets are in a bag:

- 2 yellow sweets
- 4 orange sweets
- 9 red sweets

One sweet is chosen at random.

What is the probability that a red sweet is chosen?

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

<b>Answer</b>	

0

1

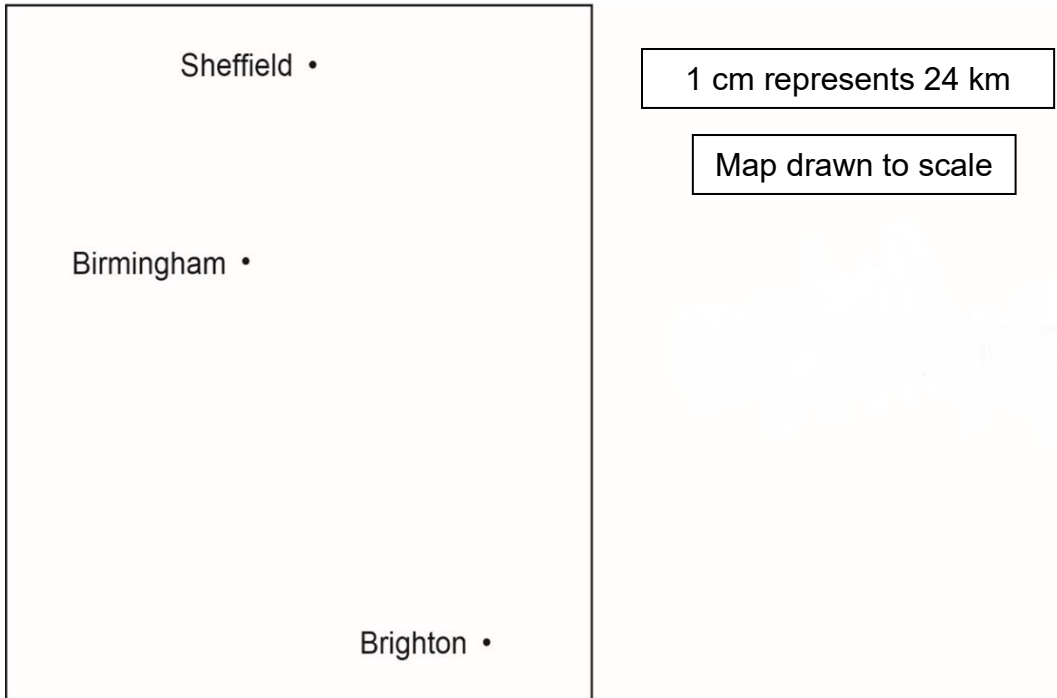


[2]

Questions continue on the following page

5. The map shows the location of three UK cities.

Charlie thinks Brighton and Sheffield are over 198 km apart in a straight line on the map.



Is Charlie correct?

**Show how you decide.**

SAMS	
<b>Answer</b>	

**[2]**

6. Kai is playing a fairground game.

- The probability that Kai wins a teddy bear is  $\frac{2}{5}$
- The probability that Kai wins a t-shirt is  $\frac{3}{8}$

Is Kai more likely to win a teddy bear or a t-shirt?

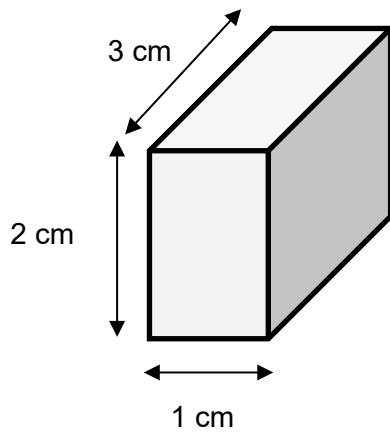
**Show how you decide.**

<b>Answer</b>	

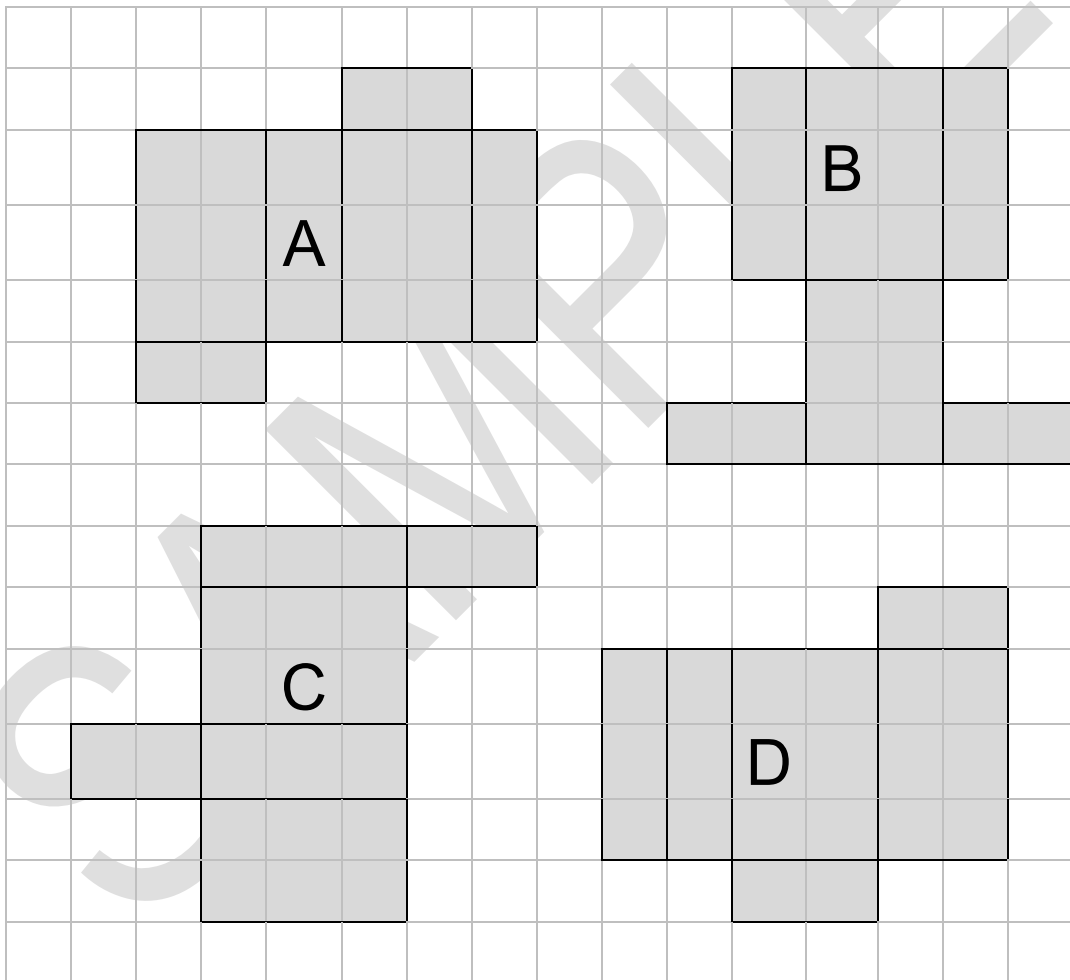
**[2]**

**Questions continue on the following page**

7. Which **two** of the following diagrams are an accurate representation of a net of this cuboid?



Nets drawn on centimetre grid



Answer	Diagram:	Diagram:
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[2]

8. Red gold is a mixture of copper and gold.

The copper and gold are mixed in the ratio 1 : 3

Lee has plenty of gold but only 600 grams of copper.

Does Lee have enough copper to make 2 kilograms of red gold?

**Show how you decide.**

SAMPLE	
<b>Answer</b>	

**[3]**

**Questions continue on the following page**

9. Drew is asked for part payment of a bill.

Drew is asked to pay two thousand and sixty pounds now.

This will be  $\frac{1}{5}$  of the total amount that needs to be paid.

How much will Drew need to pay in total?

SAMPLE	
<b>Answer</b>	

[3]

10. Morgan reads that an adult should drink 1.2 litres of water each day.

Morgan drinks 8 cups of water each day.

Each cup holds 160 ml of water.

## Does Morgan drink enough water?

**Show how you decide.**

[illegible]

**[4]**

**Questions continue on the following page**

11. A company made £144 895 from selling mobile phones in 2020

The company set a target of increasing this by at least 40% for 2021

The table below shows the amount made in sales from January 2021 to August 2021

Months	Mobile phones sold
January to April	£59 618
May to August	£58 596

The manager says:

*'If we make at least £84 500 more in sales, then we will have reached the target'.*

Is the manager correct?

**Show how you decide.**

SAMPLE

Answer

[4]



**12.** Last week it took Nicky 150 minutes to cook a chicken in the oven.

Nicky has now bought an air fryer.


The instructions say to reduce the cooking time by 20%.

Nicky wants a chicken, the same size as last week, to be fully cooked by 1 pm.

Nicky starts cooking the chicken at 11:15 am.

Will the chicken be fully cooked by 1 pm?

**Show how you decide.**

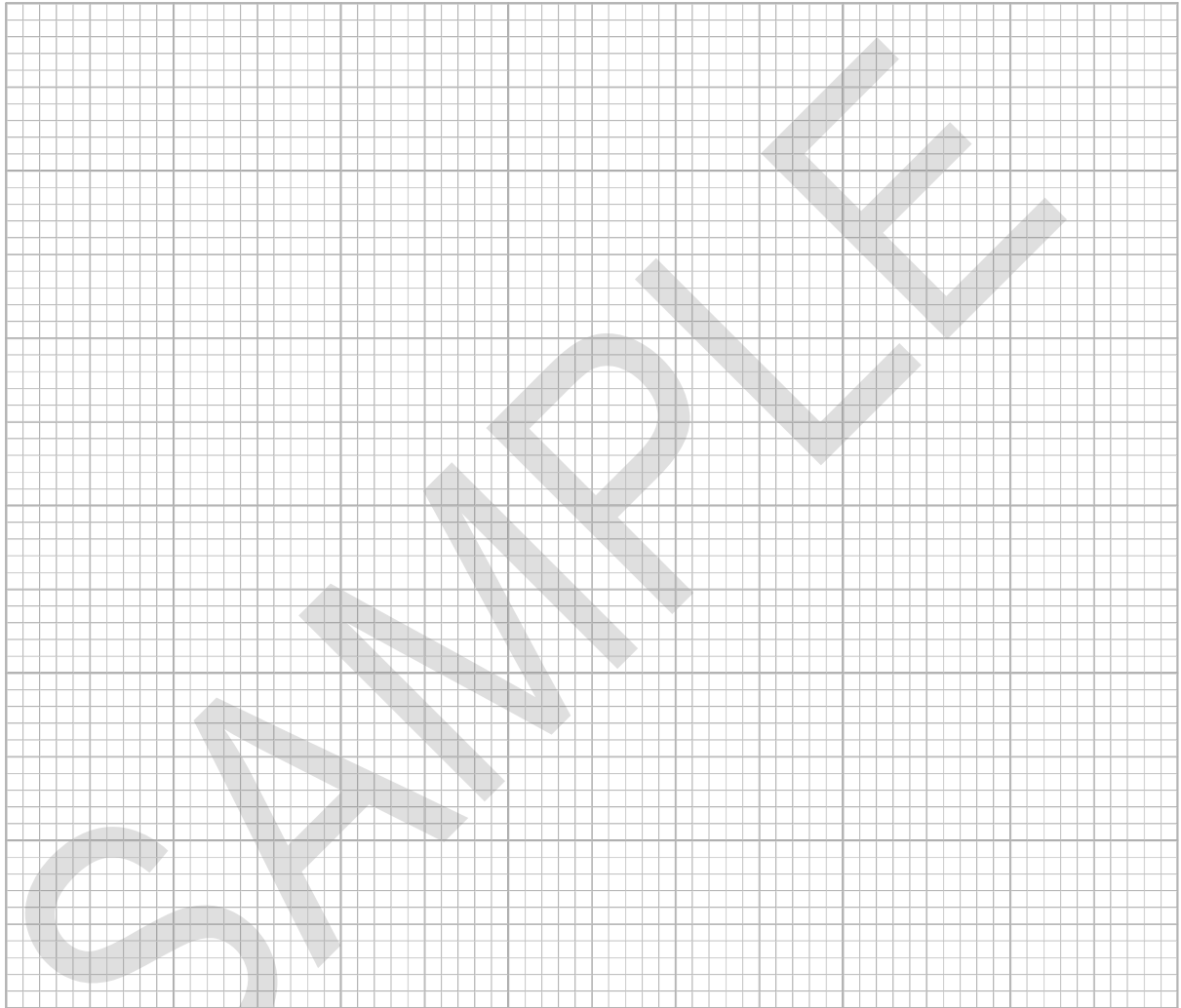
**[4]**

**Questions continue on the following page**

13. A household keeps a record of how much they spent on gas from January to June last year.

January	February	March	April	May	June
£86	£88	£71	£73	£65	£61

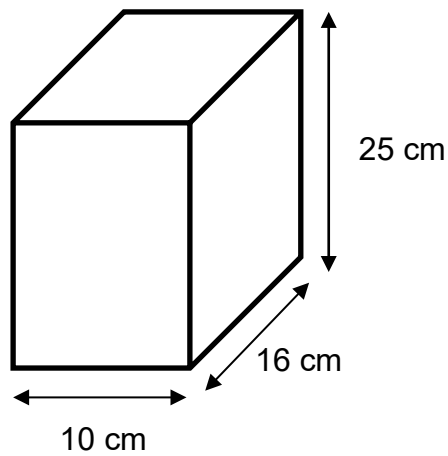
Represent this data in a line graph below.



[4]

14. Jesse wants to make 125 cuboid candles.

The size of one candle is shown below:



Not drawn to scale

Jesse makes these candles from a block of wax which is in the shape of a cube. The cube has a side length of 80 cm.

Jesse melts this block of wax to make candles.

Is this block of wax big enough for Jesse to make 125 cuboid candles?

**Show your working.**

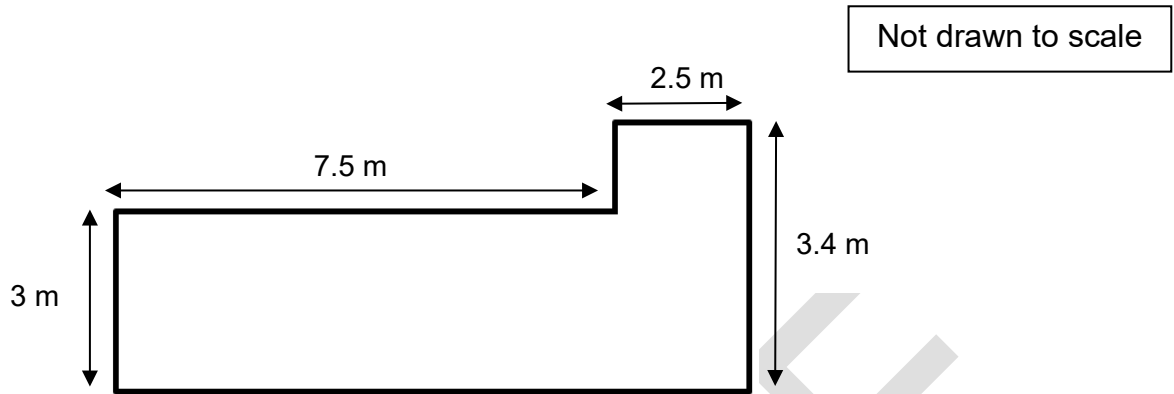
**Answer box is on the following page**

Answer	
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**[5]**

15. Jamie is having their kitchen floor tiled.

A plan view of Jamie's kitchen floor is shown below.



Each tile covers one square metre and can be cut to size once bought.

Tiles are sold in packs of 4 and cost £38.70 per pack.

How much will it cost Jamie to tile their kitchen floor?

**Show your working.**

**Answer box is on the following page**

<b>Answer</b>	

[6]

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