

# TQUK Functional Skills Qualification in Maths at Level 1

## Examination Paper (Sample Assessment Paper 2)

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  $0.432 \times 100$

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Answer	
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[1]

2. Work out  $8^2$

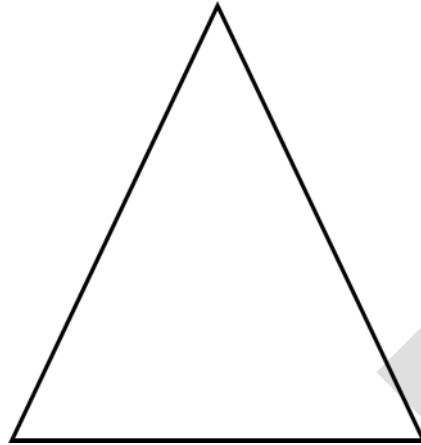
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Answer	
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[1]

Questions continue on the following page

3. This is an isosceles triangle.  
How many lines of symmetry does this shape have?



Answer	

[1]

4.  $372 \times 795 = 295\,740$   
Use these numbers to write a calculation that gives an answer of 372

Answer	

[1]

5. Convert 1625 grams (g) into kilograms (kg).

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Answer

kg

[2]

6. Rowan is buying a fridge freezer in a sale.  
The original price of the fridge freezer was £360  
The sale reduces the price by 15%.  
How much will Rowan save?

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Answer

£

[2]

Questions continue on the following page

7. Convert 1050 pence into pounds.

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Answer	£
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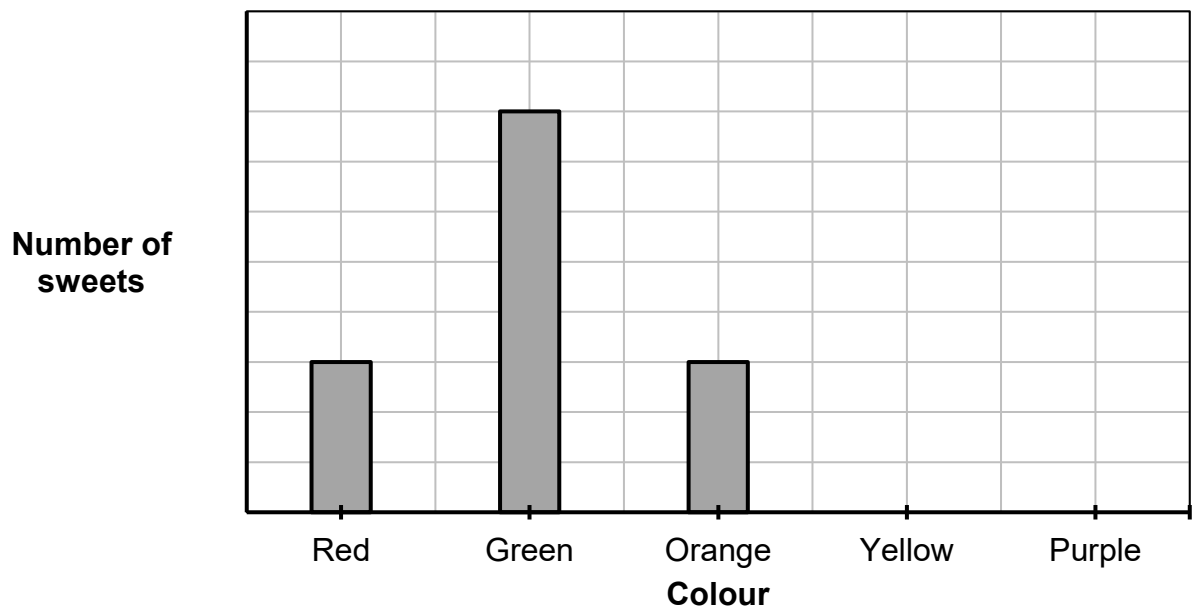
[2]

8. The table shows the colours of different sweets in a packet:

Colour	Number
Red	3
Green	8
Orange	3
Yellow	9
Purple	4

Use this information to complete this bar chart:

**A bar chart showing the colour of sweets in a packet**



[2]

Questions continue on the following page

9. A community centre is planning a party in the park.

A tent, a table and **two** chairs need to be put next to each other on the edge of the park:

Items	Length in Metres (m)
Tent	3.89 m
Chair	0.59 m
Table	1.50 m

The edge of the park is 10 metres (m) wide.

How much space will be left along the edge of the park?

Give your answer in metres.

Answer

m

[3]

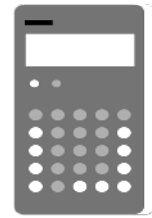
**End of Section A.**



**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.

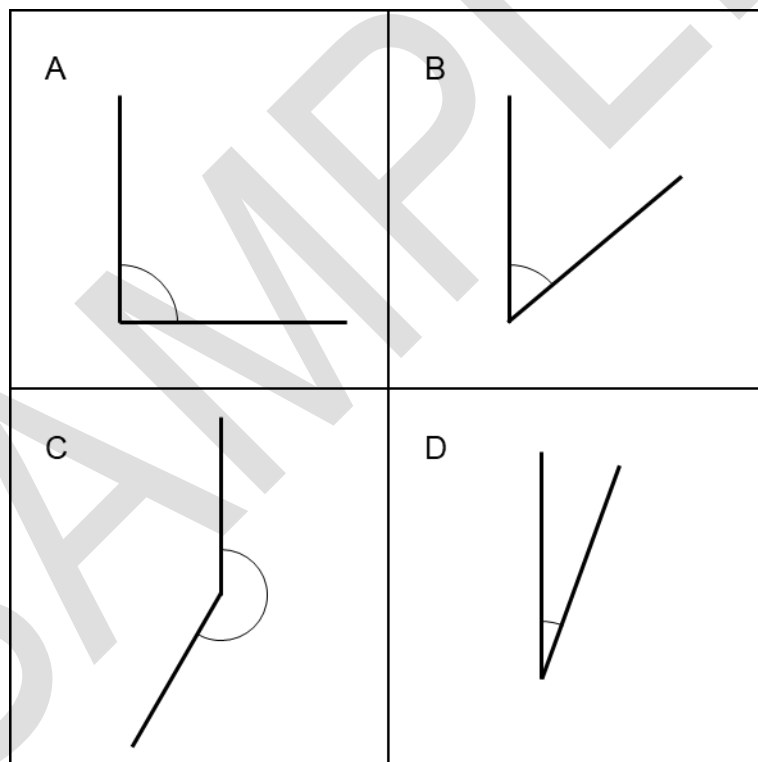


1. Round 0.348 to one decimal place.

Answer	
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[1]

2. Which of these angles is greater than a right angle?



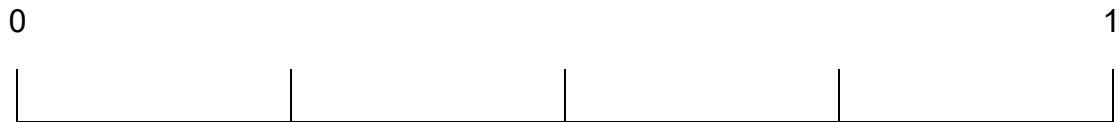
Answer	
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[1]

3. A fair coin is tossed.

What is the probability of getting a head?

Mark your answer on this probability scale:



[1]

4. A plumber records the lengths of plastic pipes in a factory:

16 750 mm	16 201 mm	16 449 mm	16 705 mm
16 833 mm	16 120 mm	17 379 mm	

The plumber thinks the range is greater than 1500 mm.

Is the plumber correct?

**Show how you decide.**

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Answer	
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[2]

**Questions continue on the following page**

5. A coffee shop tests six cups of coffee to find the perfect temperature.

The temperatures were:

23°C	44°C	68°C
68°C	65°C	44°C

The manager thinks the mean temperature is more than 50°C.

Is the manager correct?

**Show how you decide.**

<b>Answer</b>	

**[2]**

6. Harper is going camping and checks the temperature forecast.

Saturday Night	Sunday Night
5°C	-2°C

Harper thinks it will be 3°C colder on Sunday night than on Saturday night.

Is Harper correct?

**Show your working.**

<b>Answer</b>	

[2]

**Questions continue on the following page**

7. 12 people in an office took part in a charity run.

The tables show how much money each person raised:

Person	Money raised
A	£31
B	£2.20
C	£25.10
D	£1.60
E	£25.40
F	£1.70

Person	Money raised
G	£15.70
H	£1.70
I	£46.90
J	£5.50
K	£32.90
L	£31.40

Use the information to complete the grouped frequency table.

Money raised	Frequency
£0 - £9.99	
£10 - £19.99	
£20 - £29.99	
£30 - £39.99	
£40 - £49.99	

[2]

8. Hayden wins twelve thousand five hundred pounds in a competition.

Hayden puts the money into a new savings account which pays 5% simple interest per year.

How much money will Hayden have in one year?

<b>Answer</b>	<b>£</b>

[3]

Questions continue on the following page

9. Ash records the time spent on different activities in a day:

**Travel:** 1 hour 15 minutes

**Eating:**  $1\frac{2}{3}$  hours

**Exercise:** 90 minutes

Ash thinks the most time is spent on exercise.

Is Ash correct?

**Show how you decide.**

<b>Answer</b>	

**[3]**



10. Morgan receives £2250  
Morgan pays £45 into a savings account.  
Morgan thinks this is one fifteenth of the £2250  
Is Morgan correct?

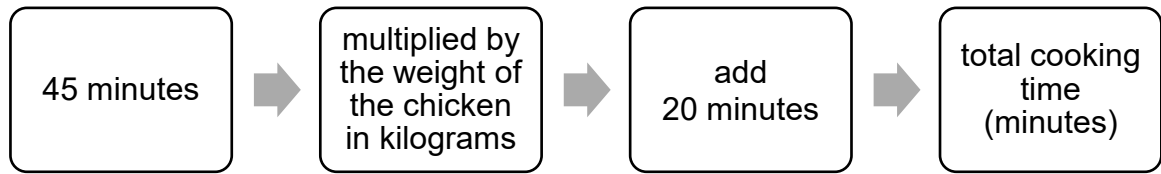
**Show your working.**

<div style="text-align: right; padding-right: 10px;"><b>Answer</b></div>	
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**[3]**

**Questions continue on the following page**

11. Alex has these instructions for roasting a chicken:



Alex thinks it will take less than 2 hours to roast a 2.4-kilogram (kg) chicken.

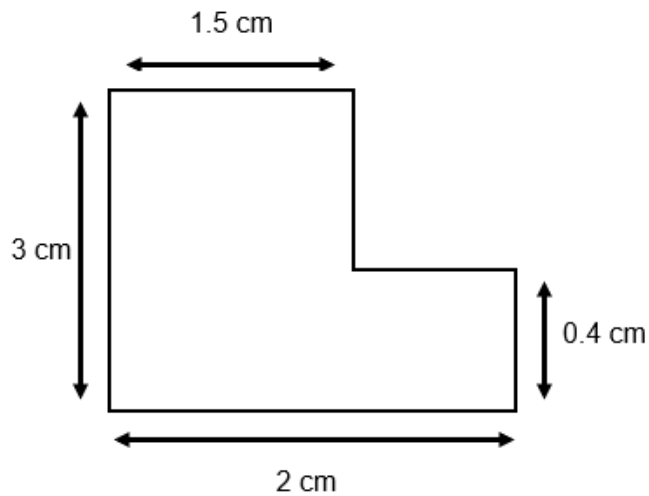
Is Alex correct?

**Show how you decide.**

<div></div>	
Answer	

[4]

12. The diagram shows a scale drawing of a garden.  
On the scale, 1 cm represents 2 metres (m).



A gardener wants to put a border around the edge of the garden.

The border is sold in 5 metre (m) rolls.

How many rolls does the gardener need to buy?

**Show your working.**

SAMPLE

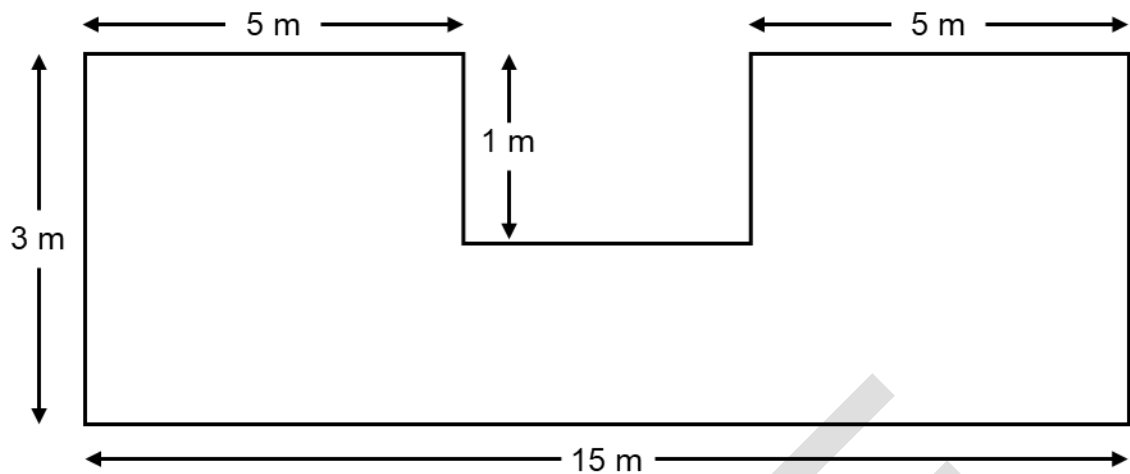
Answer

rolls

[4]

Questions continue on the following page

13. The diagram shows the plan view of a playground:



A builder will cover the playground in soft tiles.

Each tile is one square metre ( $1 \text{ m}^2$ ).

The tiles will be red and green in the ratio 1 : 4

How many green tiles will be used?

**Show your working.**

SAMPLE

Answer

[5]

14. A baker needs to prepare enough muffins for 20 people.  
The baker has this recipe:

<b>Muffins</b>
<b>Serves 4 people</b>
300 g blueberries
100 g sugar
2 eggs
200 ml buttermilk
300 g flour
2 teaspoons baking powder
60 g butter

The baker buys flour in bags of 0.5 kilogram (kg).  
How many bags of flour will the bakery need to buy in total?

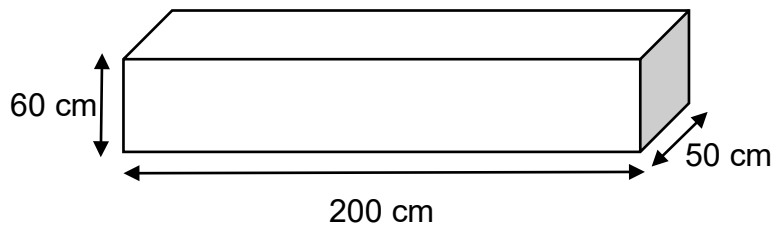
<b>Answer</b>	
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[5]

Questions continue on the following page

15. Ali wants to fill this flowerbed with compost.

Not drawn to scale



Ali wants to buy 15% more compost than needed.

How many **litres** of compost will Ali need to buy?

*Use 1 litre = 1000 cm<sup>3</sup>*

**Show your working.**

SAMPLE

**Answer**

**litres**

**[6]**

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