

TQUK Functional Skills Qualification in Maths at Level 2

Examination Past Paper 7

Please complete the CAPITALS.	ne details below using black or blue ink. Use BLOCK
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.

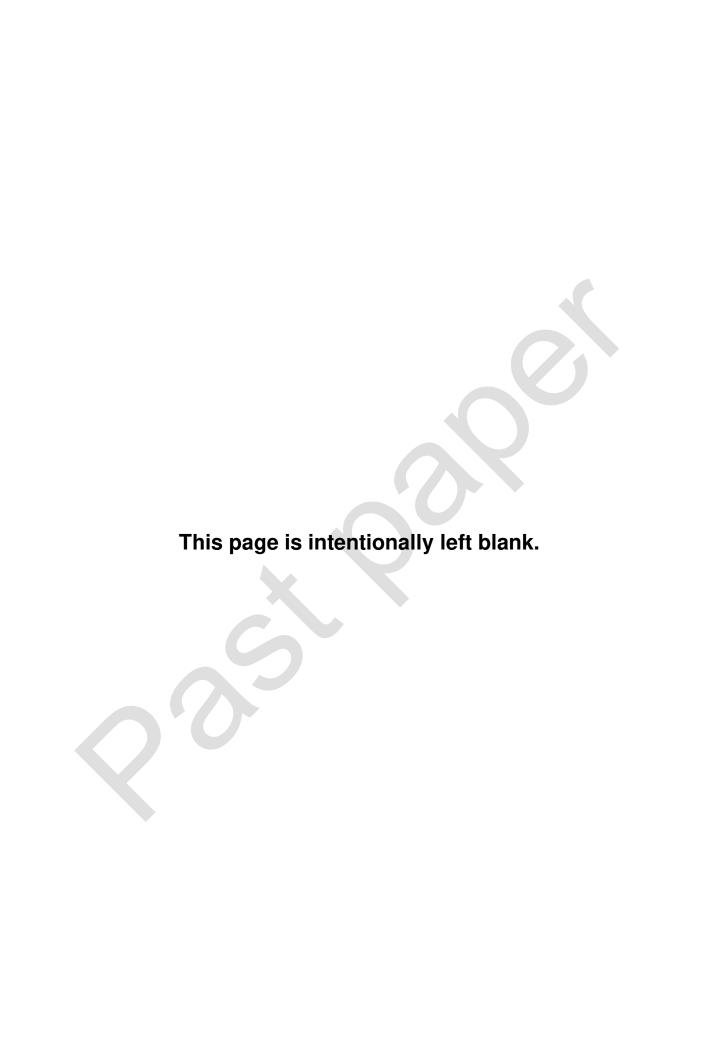
Time allowed:

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		



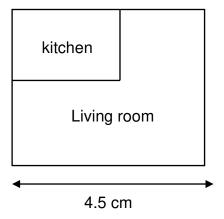
Section A: Non-calculator

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 1.804 + 2.6
	Answer
	[1] Work out 5 × 6.248
2.	Work out 5 × 6.248
	Answer
	Questions continue on the following page

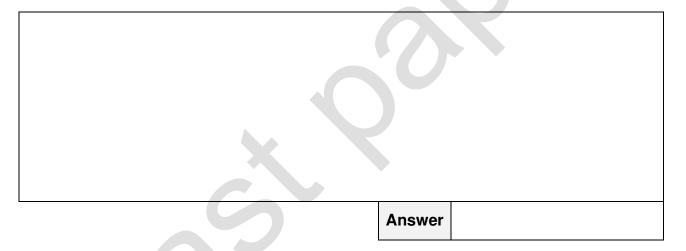
3. This is a scale diagram of a floor plan of a house:



The scale is 1:200

Work out the actual length of the living room.

Give the units in your answer.



[2]

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4.	W	/or	ĸ	Οl	ıt:

$$\frac{1}{4} + \frac{1}{7}$$

Answer	
	[2]

5. Charlie receives these discount coupons for the same restaurant:

Monday $\frac{1}{6}$ off

Tuesday 16% off

Charlie wants to go to the restaurant on the day which offers the bigger discount.

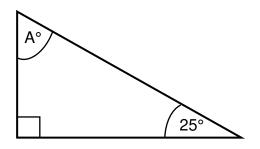
On which day should Charlie go to the restaurant?

Show how you decide.

Answer

[2]

6. Work out the value of angle A.



Not drawn to scale

Answer

[2]

- **7.** A clay pot has:
 - mass = 2650 grams
 - volume = 1000 cm^3

Work out the density of the clay pot.

	Answer	

[2]

8. Riley wants to become a local football coach.

Riley uses this table to find out how much other local football coaches charge:

Coach	Α	В	С	D	E	F	G
Charge per hour	£25	£20	£30	£40	£26	£20	£35

Riley uses this formula to work out how much to charge:

P = 1.1M

Where:

P is the amount Riley will charge per hour in pounds

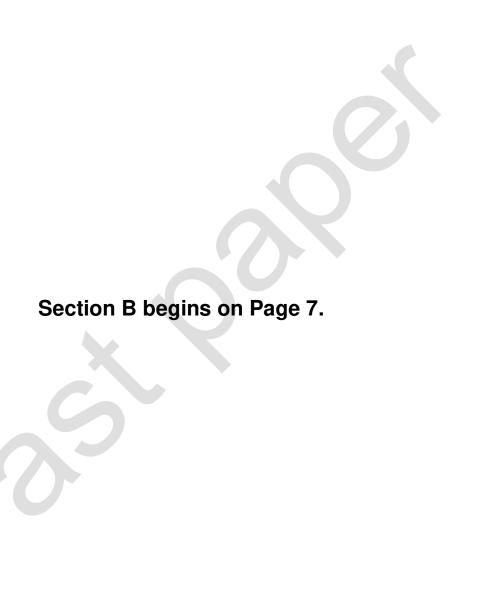
M is the mode of the numbers in the table

How much will Riley charge per hour?

Answer	£

[3]

End of Section A.



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. Write five million three hundred thousand in numbers.

_	
Answer	
AII3WCI	

[1]

2. Put these numbers in order starting with the lowest:

1 004 682

- 948 750

1 020 845

- 34 589

Show any work	king here:		
Answer			
	Lowest	 	Highest

[1]

3. Last week it took 2 gardeners 4 hours to mow a field.

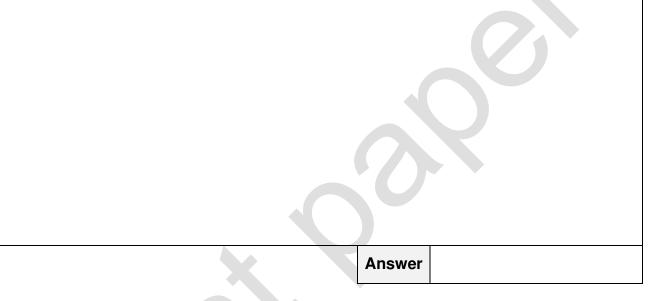
This week there will be 5 gardeners available to mow a field of the same size.

The gardeners all work at the same speed.

Their manager thinks that the 5 gardeners will mow the field in less than 1.5 hours.

Is the manager correct?

Show how you decide.



[2]

4. Put these fractions in order starting with the highest:

 $2\frac{4}{9}$

 $2\frac{5}{6}$

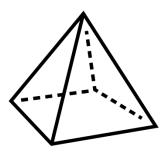
 $2\frac{2}{3}$

 $2\frac{13}{18}$

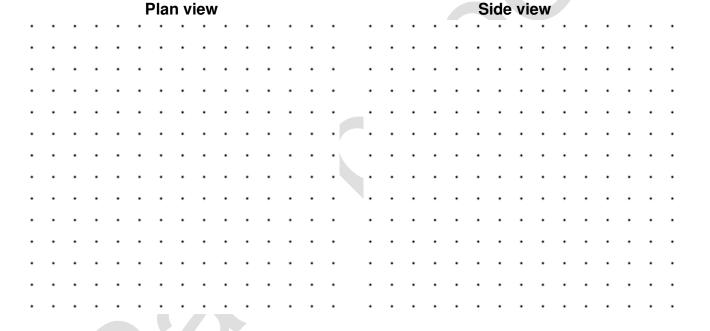
Show any w	orking here:		
Answer			
	Highest		Lowest

[2]

5. The diagram shows a square based pyramid:

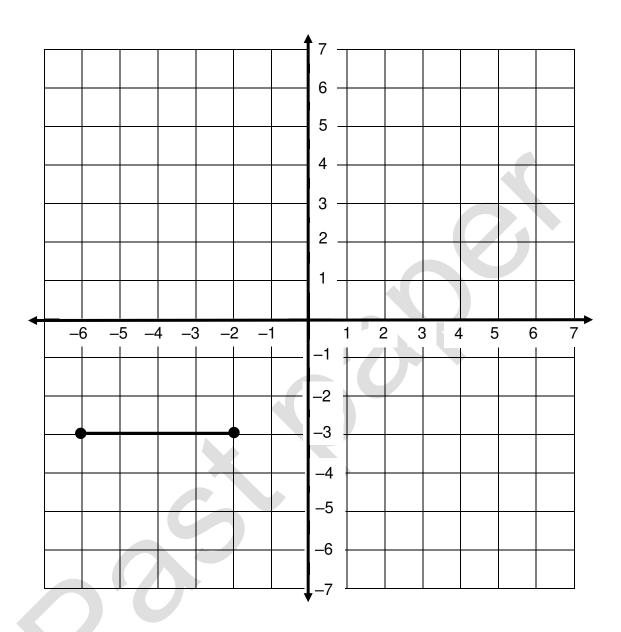


Draw the plan view and side view of the pyramid.



6. Hansa wants to put a square trampoline in a garden.

One side of the trampoline is shown on this grid:



Where could the other **two** corners of the trampoline be placed?

Answer (,) and (,)
Answer (,) and (,)
MISWELL . Jailul . J

[2]

7. Quinn bought a mobile phone.

The next day, Drew buys the same type of mobile phone in a sale.

Drew got a 32% discount and paid £170 for their phone.

How much more money did Quinn pay for the mobile phone?

Answer £

[3]

8. This table shows how long Tomi spends on different tasks at work:

Serving customers	210 minutes	
Working in warehouse	50 minutes	
Paperwork	60 minutes	
Stocking shelves	100 minutes	

Tomi wants to know what fraction of time is spent doing paperwork.

Tomi works this out to be $\frac{1}{6}$

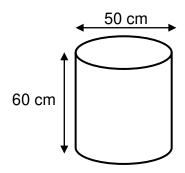
Has Tomi worked out the correct fraction?

Show how you decide.

Answer

[3]

9. Bo needs to paint the outside of this cylinder including the top and bottom:



Not drawn to scale

Bo thinks the total area to be painted is less than 15 000 cm²

Is Bo correct?

Show how you decide.

Use π = 3.14

Answer

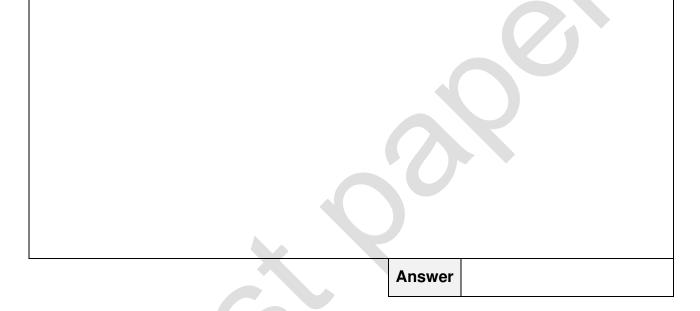
[3]

10. The table shows how far Alex walked each day for two weeks:

	Monday	Tuesday	Wednesday	Thursday	Friday
Week 1	4	2	5	9	6
Week I	miles	miles	miles	miles	miles
Week 2	5	3	6	7	5
Week 2	miles	miles	miles	miles	miles

Was Alex more consistent in week 1 or week 2?

Give a reason for your answer.



[3]

11. Jamie is planning an event for 280 people.

There will be three different ticket types available.

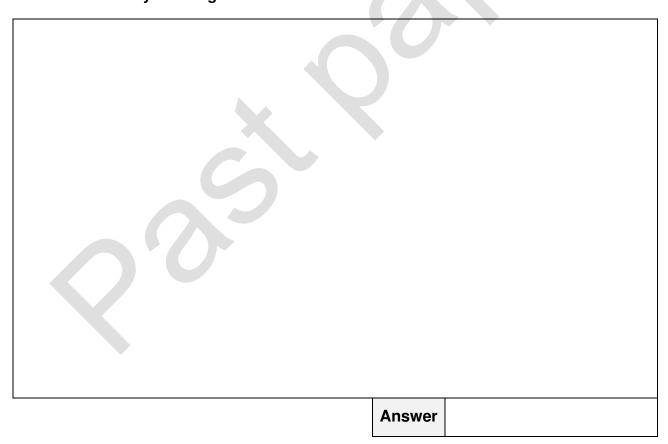
The ticket types are Standard, Premium and Luxury in the ratio 5:3:2

Jamie needs to know how many of each ticket type there will be.

Complete the table for Jamie.

Tickets available		
Ticket Type	Number Available	
Standard		
Premium		
Luxury		
Total		

Show any workings here:



[4]

12. Damyan sells cakes in the shape of a cylinder.

The diameter of each cake is 15 centimetres (cm)

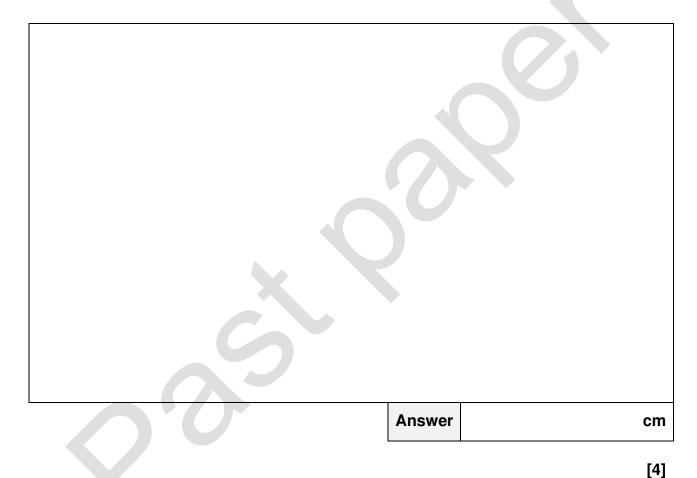
Damyan puts a ribbon around the outside of each cake.

Each ribbon needs to be 56% longer than the distance around the cake.

How long does each ribbon need to be?

Use π = 3.14





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13. Riley wants to buy milk from a local farm.

The farm has these prices on its website:

Glass bottles

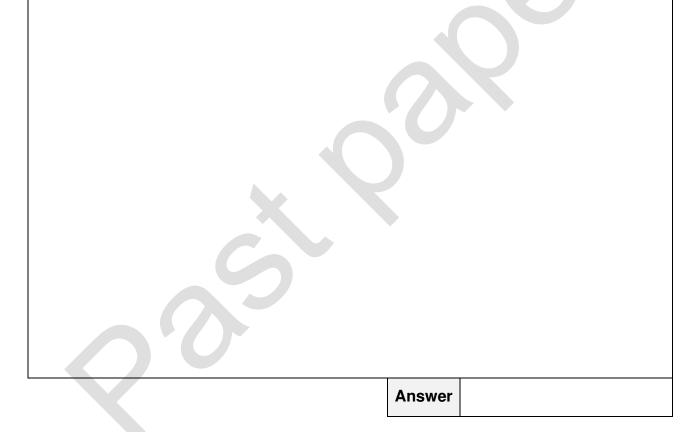
£1 per pint Plastic bottles

£2.30 for a 2-litre bottle

Which type of bottle is better value for money?

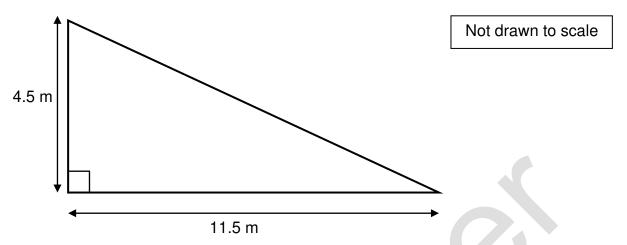
Use 1 litre = 1.76 pints

Show how you decide.



[4]

14. Lei needs to paint this wall three times:



Paint is available in these colours:

Colour	White	Grey	Black	Charcoal	Cream
Number of square metres one tin will cover	14 m²	12 m ²	8 m²	6 m ²	13 m²

Lei chooses the colour that will cover the median number of square metres.

How many tins of paint does Lei need to paint the wall three times?

Show your working.

Answer box is on the following page

Answer tins [5] **15.** Kass owns a cleaning company.

Kass uses this table to record time spent at each cleaning job:

Time (t) in minutes	Number of cleaning jobs
0 < t ≤ 60	11
60 < t ≤ 120	36
120 < t ≤ 180	18
180 < t ≤ 240	5

Kass thinks the mean amount of time per cleaning job is less than 104.75 minutes.

Is Kass correct?

Show your working.

Answer box is on the following page

