

Sample Paper: P000291

NCFE Functional Skills Qualification in Mathematics at Level 1 (501/2325/7)

Time Allowed

2 HOURS

You need the following to complete this assessment:

- ruler
- calculator

Read each document and activity carefully and attempt to answer all activities.

Write your answers in the spaces provided and ensure that your writing is legible.

If extra pages are used, please make sure your name is on them and they are securely fastened to this booklet.

At the end of the assessment hand all documents over to the invigilator as instructed.

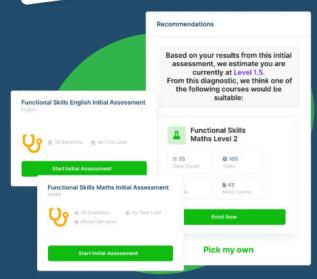
DO NOT TURN OVER UNTIL YOU ARE INSTRUCTED TO DO SO BY THE INVIGILATOR.

For Examiner use only:

Activity number	1	2	3	Total
Total Marks awarded				
Total Marks available	14	15	11	40



FUNCTIONAL SKILLS ONLINE COURSES



- Your answers are analysed to determine your Current Level
- Suggested courses for you to enrol on based on your calculated level
- Always know the level you are currently working at
- Determine when you are ready to sit your exam
- Explainer videos on every topic
- Quick-fire style mutiple choice questions
- Test your knowledge with exam-style questions
- Written solutions for all questions





- See your progress through as you progress through each topic area
- Get your average scores for practice questions, topic tests and mock exams
- View all practice question, topic test and mock exam attempts over time
- ✓ View historical attempts to analyse your progress over time

Going to work



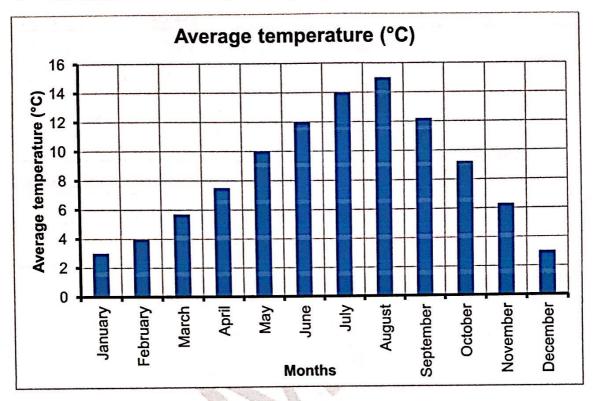
This assessment is about going to work.

Complete activities 1, 2 and 3 based on the documents provided for each activity.

Activity 1

Task A

1. The chart shows the average monthly temperature last year.



You have recently started a new job. You want to travel by motorcycle.

You do not want to use a motorcycle when it is too cold.

Use the chart to tell you when a month had an average temperature of 4°C or lower.

How many months of the year was this? Name the months in your answer.

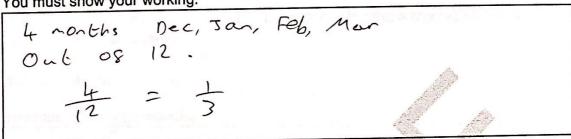
Marks available: 2

You must show your working:		-	
1.00			
Your answer:		и	
3 months	December		
	December January February		

2. Using the chart, what is the probability of any month having an average temperature below 6°C?

Marks available: 2

You must show your working:



Your answer:	
1/3	Care Control of the C
3	
COLUMN AND AND AND AND AND AND AND AND AND AN	

Task B

 In the first 4 weeks in your job you worked Monday to Friday. There were 12 days when you used the bus. On the other days you travelled to work by motorcycle.

What was the ratio of using the bus compared to using the motorcycle? Show this ratio in its simplest form.

Marks available: 2

You must show your working:

Your answer:

3:2

2. You are at work for 6 hours a day. You also spend time travelling to and from work.

The ratio of the amount of time spent travelling compared to being at work is 1:4

How much time do you spend travelling each day?

Marks available: 2

You must show your working:

1; 4

4 parts is 6 hours

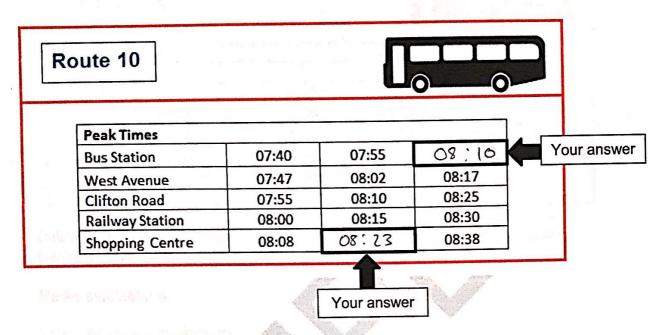
1 part is 1-5 hours = 1 h 30 m.

So travelling is 1h30 m.

		William Comment	457	Ř-
Your answer:				
$\frac{1}{2}$ Hours $\frac{36}{2}$ Minute	s			
Allen a galler of the				
		and the fines		
Complete to exchange				
Mark travelle N.				
Not his speciation (A)				

Task C

1. The timetable shows 3 bus times.



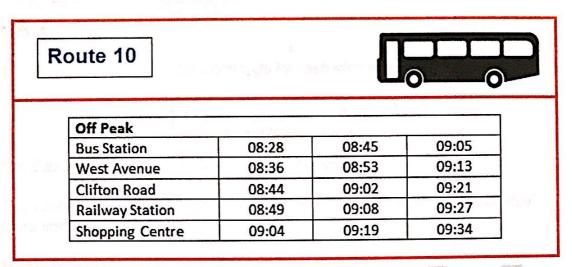
Each bus has the same journey time from the Bus Station to the Shopping Centre where you work.

Complete the timetable. Enter the 2 missing times in the timetable.

Marks available: 2

Use the space below for your working:

2. The timetable shows 3 bus times later in the day.



Calculate the average (mean) journey time from the Bus Station to the Shopping Centre for these 3 buses.

Marks available: 4

You must show your working:

$$(36+34+29)/3 = 99/3 = 33$$
 muns

Your answer:

33 mins

Show how you can check your answer:

33 x3 should equal 36 +34 +29.

Total marks available: 14

Activity 2

Task A

1. The cost of petrol for the motorcycle for each kilometre is calculated by:

The distance from home to work is 6 kilometres (km).

Calculate the weekly cost of the journey to and from work. You make the journey there and back for 5 days each week.

Marks available: 3

You must show your working:

Your answer:

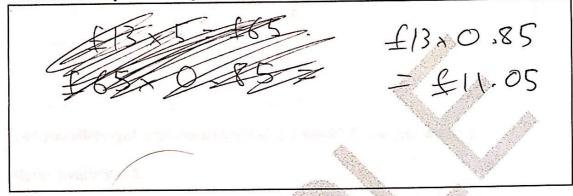
£5.40

2. The bus will cost £13 per week if tickets are bought each day. By buying a Weekly Saver ticket you can save 15%

How much does the Weekly Saver ticket cost?

Marks available: 3

You must show your working:



Your answer:

3. The motorcycle's fuel tank holds up to 5 litres.

How much will it cost to fill the tank from empty at a price of £1.23 per litre?

Marks available: 2

You must show your working:

Your answer:

Task B

Your weekly wage from your new job is £180

You expect to pay these costs each week:

Weekly costs	
Household bills	£25
Rent	£50
Food and leisure	£60
Motorcycle costs	£27
Bus travel	£13

Can you afford gym membership at £15 per week? Show your working.

Marks available: 3

You must show your working:

$$£25+£50+£60+£27+£103$$

= £175
£180-£175=£5<£15.

Your answer:

No.

Task C

1. The information below shows your spending on food and leisure over 6 months.

September was £230, October was £250, November was £260, December was £330, January was £210, February was £240

Show these costs in a table with suitable titles.

Marks available: 2

Your answer:

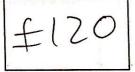
	Month	Spending	
	September	£ 230	
Telephone av	October	£150	
	November	£ 260	
	December	£330	
	Danuary	£210	
	February	£240	

2. What is the range of your monthly spending on food and leisure over the 6 months?

Marks available: 2

You must show your working:

Your answer:



Total marks available: 15

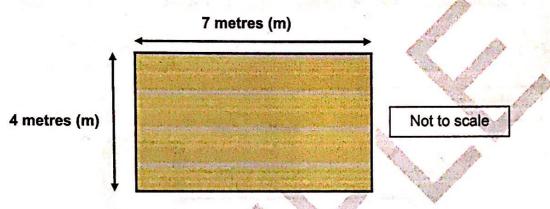
Activity 3

Task A

At work, your manager has asked you for help in planning a new office.

Calculate the cost of flooring for the room shown.

The cost of the flooring is £24.99 per m²



Marks available: 4

You must show your working:

Your answer:

€699-72

Show how you can check your answer:

699.72 - 24.99 Should equal 7×4

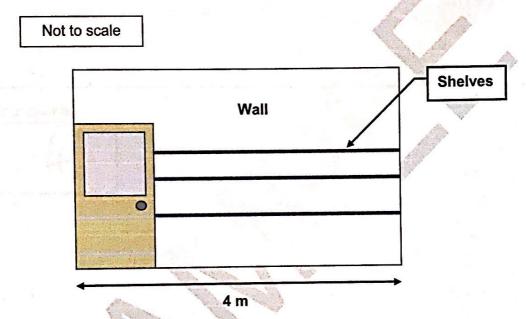
Task B

1. You need to work out how much shelving is needed for the new office.

The shelves will fit along one wall. They will take up the space between the door and the corner.

There will be 3 shelves made from wood. The door is 90 centimetres (cm) wide.

What will be the total length of the wood used for all 3 shelves, in metres?



Marks available: 3

You must show your working:

$$90 \text{ cm} = 0.9 \text{ m}$$
.
 $4 - 0.9 = 3.1 \text{ m}$ gor one stelf.
 $3.1 \times 3 = 9.3 \text{ m}$.

Your answer:

9-3m

The wood for the shelves is only available in lengths of 2.4 mThe lengths can be joined together.

How many lengths of wood must be bought to make the shelves?

Marks available: 2

You must show your working:

Your answer:



Please turn over.

Task C

Your manager wants to make a section of the car park suitable for parking motorcycles.

The size of the car park area is shown in the diagram.



The parking bays will be 1.5 metres (m) x 2.5 m

What is the highest number of parking bays that can be fitted in the space shown below?

Marks available: 2

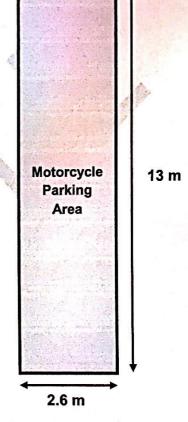
Not to scale

Put 2.5m along the 2.6m

Cength

Then we can he along 13m length

13:1.5=83 So con have 8



You must show your working:

Your answer:

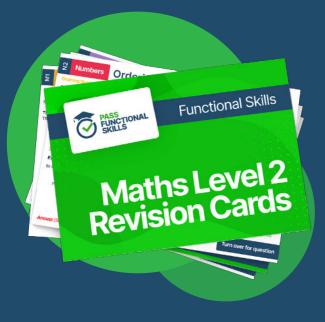
Total marks available: 11

End of assessment





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