

NCFE Level 2 Functional Skills Qualification in Mathematics (603/5060/X)

Paper number: Section A:	P001259 Non-calculator Test	NOON A		2
Assessment window Time allowed:	: Monday 9 December 2019 – 30 minutes	Frida	ay 13 Deci	ember 2
 Learner instructions Answer all questions Read each question Write your answers in Show your working, a State units in your an Check your work 	carefully. n the spaces provided. as marks may be awarded for working. swers, where appropriate.			×.
earner information	No. Call	Tre .		
Section A contains Ac	ctivity 1 only.	by	the examiner	Mark
 The maximum mark for 	or this section is 15.	A	Activity 1	/ 15
 The marks available for 	or each question are shown in brackets.	в	Activity 2	/ 16
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ou will need a:			Activity 3	/ 15
 pen, with black or blue 	ink		Activity 4	/ 15
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Please complete the details below clearly and in BLOCK CAPITALS.

Learner name		
Centre name		
Learner number	Centre number	
Do not turn	over until the invigilator tells you to do so.	



FUNCTIONAL SKILLS ONLINE COURSES

tional Skills English Initial Assessment	Based on your results from this initia assessment, we estimate you are currently at Level 1.5. From this diagnostic, we think one of the following courses would be suitable:			
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Start Initial Assessment	≡ 35 Topic Count	© 105 Tests		
Functional Skills Maths Initial Assessmen	it is	1 43 Mock Exams		
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- 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

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Examiner use or

[1 mark]

Activity 1: Weather

1 (a) Zak is a journalist.

He is writing an article about the local weather.

This table shows the highest and lowest temperatures in Zak's town for two different years. -

Year	Lowest	Highest	
2014	-3.4 ℃	20.3°C	
2018	-0.2 °C	23.4 °C	

Which year had the greater difference between highest and lowest

Show how you decide.

Your answer:

2014.

1 (b) Zak works out the percentage of days last year that the temperature

His calculator gives the answer 8.219178082

Write this percentage to 2 decimal places.





°C = 5 × (°F – 32) ÷ 9

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[2 marks]

Is Zak's headline correct?

Show how you decide.

= 7×5=35°C. (95-32)×5 63×5 35 > 32 - 9 Your answer: No.

Zak looks at the weather forecast.

1 (d)

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This table shows the highest daily temperatures forecast for the next eight days.

Day	1	2	-	1.1.1.1.1.1	1000000	Constant of the			J	aayo.
Temperature	tener (-	3	4	5	6	7	8	9	10
°C	15	19	17	15	15	20	19	16	a substantia	1000

The median of the **ten** temperatures is 17.5 °C and .

the ten temperatures have two modes.

Use this information to find the forecast temperatures for Day 9 and Day 10.

[2 marks] 15 15 15 16 17 19 19 20 5+ value = 3 17 val =18. Ne 15 15 15 19 16 17 18 19 20 19°C 3 days be ist There 3 19°C 18, E 18°C Your answer: Day 9: Day 10: 19°C .

Zak wants to find out how accurate the weather forecast is.

This table shows the last 6 months' forecasts for rain.

It also shows the number of days that it actually rained or stayed dry.

		Actual weather (days)		
	1.004	Rain	Dry	
Forecast weather (days)	Rain	70	60	
	Dry	36	16	

Was the forecast more likely to be right when it was for rain or when it was for dry weather?

Explain how you decide.

[3 marks]

	70 70+60	= 13		13. (Rai	.م).	
	<u>16</u> 36+16	= <u>16</u> 52	- 4	(Ory)		
1	Ó	Rain	forecast	more	libely	ho
		be	Correc	¥.		
		Yo	ur answer:	Ra	ŝo .	

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Please turn over for the next question.



PassFunctionalSkills.co.uk A forecast is recorded as "accurate" if the actual temperature is within 2 °C of the forecast temperature.

Zak writes that,

"The temperature forecast was accurate for less than 70% of the time".

Is Zak correct?

Show how you decide.

[3 marks] at least 2°C out. are 4/g => 5/g accuracy = 55.5 -/. 55.67. < 70%. Your answer: Yes. Please turn over

(g) Zak wants to include a map in his article. The map must be to scale.

The map shows a part of the country that is 30 km wide and 48 km long.

It must fit into a space that is no more than 12 cm wide and 16 cm long.





The map is scaled down to fit into the space.

In the article, what distance, in km, will 1 cm on the map represent?



1 (g)

This is the end of Section A.

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