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

Paper number: Section A:	P001258 Non-calculator Test	- Change	K	
Assessment window: Time allowed:	Monday 14 October 2019 – F 30 minutes	riday	18 Octob	er 2019
Learner instructions				
 Answer all questions. 				
 Read each question ca 	arefully			
Write your answers in t	the spaces provided			
 Show your working, as 	marks may be awarded for working.			
 State units in your answ 	wers, where appropriate.			
 Check your work. 				
earner information		То	be completed	Mark
 Section A contains Acti 	vity 1 only.		the examiner	Mark
 The maximum mark for 	this section is 15	A	Activity 1	/ 15
 The marks available for 	each question are shown in brackets.	в	Activity 2	/ 15
Resources			Activity 3	/ 15
ou will need a:			Activity 4	
· pen, with black or blue in	ık		FRANKEY 4	/ 15
 pencil and eraser 		TOT	AL MARK	/ 60
• 30 cm ruler				

- 30 cm ruler
- protractor.

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

Please complete the details below clearly and in BLOCK CAPITALS.

Learner name		
Centre name		
Learner number	Centre number	
Do not turn		

not turn over until the invigilator tells you to do so.

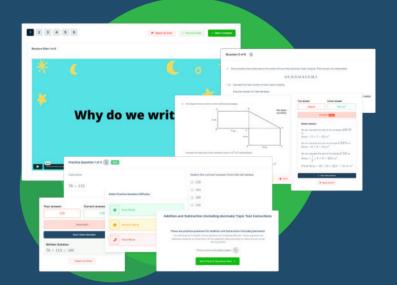
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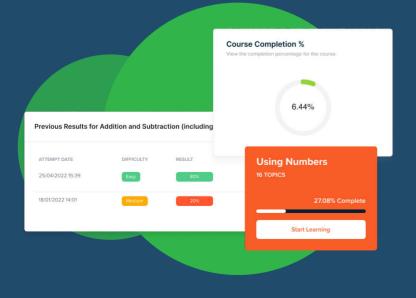
FUNCTIONAL SKILLS ONLINE COURSES

tional Skills English Initial Assessment	assessmen curre From this dia	r results from this initial t, we estimate you are ntly at Level 1.5. gnostic, we think one of ng courses would be suitable:
🖷 13 Questions 📲 No Timo Limit		ional Skills 5 Level 2
Start Initial Assessment	≡ 35 Topic Count	© 105 Tests
Functional Skills Maths Initial Assessmen	it is	1 43 Mock Exams
S Questions No Time Limit Mixed Calculator		Enrol Now
Start Initial Assessment	Pi	ck my own

- 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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[2 marks]

pence

Activity 1: Swimming

1 (a) Asha often goes swimming at Upton leisure centre.

She pays £5.20 each time she swims.

Next month the price will increase by 12.5%

How much more will Asha need to pay for each swim?

Give your answer in pence.

0.125x £5.20=

±0.625 + ±0.025 = ±0.65 = 65,

Your answer:

65

1 (b) £5.20 is 30% more than the price at Downton leisure centre.

Calculate the price at Downton leisure centre.

[2 marks] £5.20 = (1+0.3)= ## + E5.20 = £4 Your answer: 4 £

Please turn over

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1 (c) The pool where Asha swims is rectangular.

It is 2500 cm long and 1250 cm wide.

The four sides of the swimming pool are 150 cm deep.

They are covered with small square tiles of different colours.

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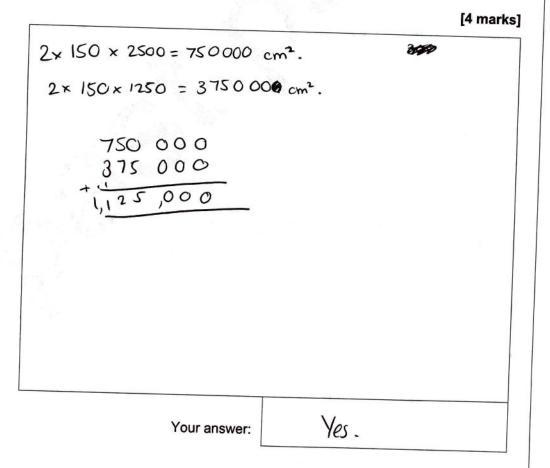
Each small tile has an area of 1 cm²

Asha thinks,

"There must be over a million small tiles covering the sides of this pool!"

Is Asha correct?

Explain how you decide.



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Asha reads that the women's Olympic record for swimming 100 m is 52.7 seconds.

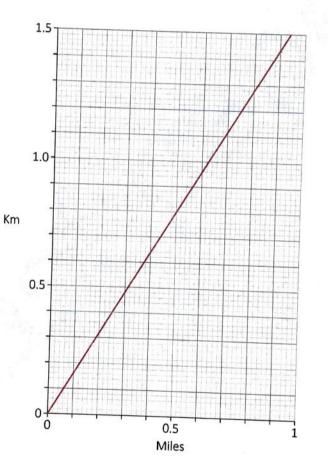
This means that the record holder swam at an average speed of 1.9 metres per second.

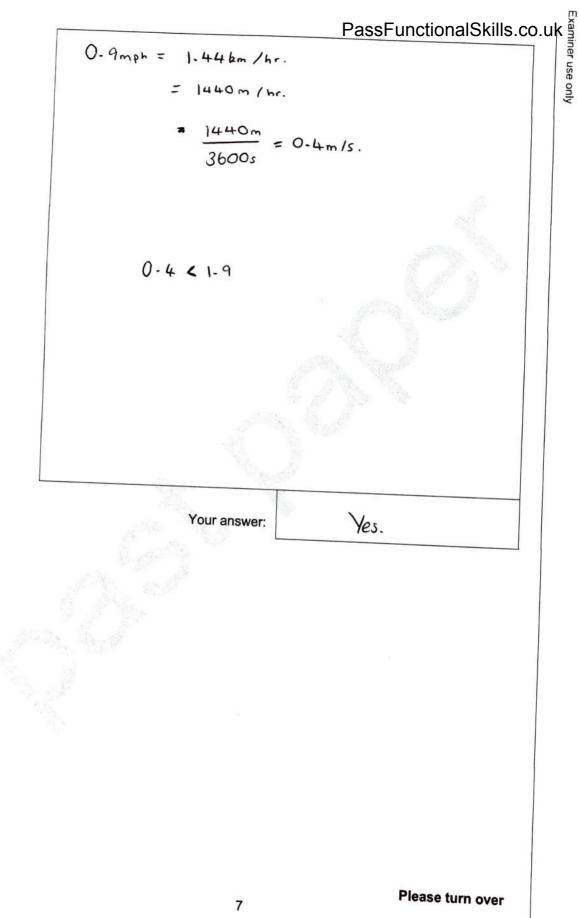
A goldfish can swim at a speed of about 0.9 miles per hour.

Did the Olympic record holder swim faster than a goldfish?

Show how you decide.

This conversion graph will help you.





1 (e)

Examiner use c

Asha swims 1 km each time she goes to the pool.

She always records how long this takes her.

The table shows her data for 10 swims.

Time taken to swim 1 km (minutes)	Number of swims
25 < time ≤ 26	2
26 < time ≤ 27	4
27 < time ≤ 28	4

Estimate Asha's mean time to swim 1 km

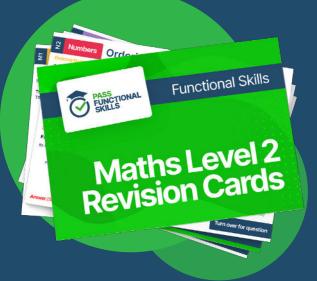
[3 marks]

(25-5×2) + (26.5×4) + (27.5×4) = 51 + 106 + 110 267 mins = 2+4-14=10. 26 26.7 mins (average). Your answer: 26.7 minutes [Total marks: 15]

This is the end of Section A.







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