

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

Paper number: P001457

Section A: Non-calculator Test

Time allowed: 30 minutes

#### Learner instructions

- Answer all questions.
- Read each question carefully.
- Write your answers in the spaces provided.
- Show your working, as marks may be awarded for working.
- State units in your answers, where appropriate.
- Check your work.

### Learner information

- Section A contains **Activity 1** only.
- The maximum mark for this section is 15.
- The marks available for each question are shown in brackets.

#### Resources

You will need a:

- pen, with black or blue ink
- pencil and eraser
- 30 cm ruler
- protractor.

To be completed by the examiner

A Activity 1 / 15

/ 15

/ 15

/ 15

/ 60

Activity 2

Activity 3

Activity 4

TOTAL MARK

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 over until the invigilator tells you to do so.

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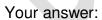
# Activity 1: Motorcycle racing

1 (a) Damon is a motorcycle racer. He takes part in two races over a weekend.

4650 spectators watched the race on Saturday. This number increased by 2% on Sunday.

Increase 4650 by 2%



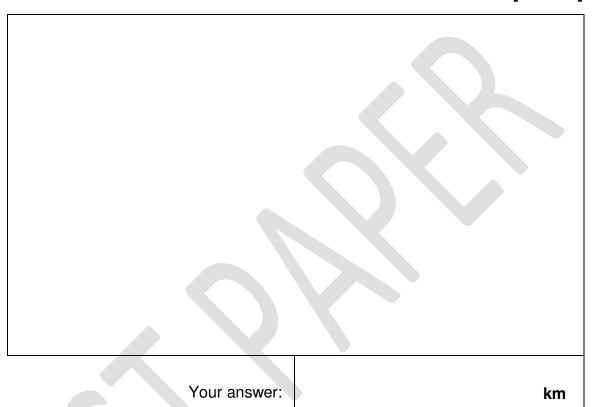


1 (b) In the race on Saturday each lap was 2.678 miles long. 1 km = 0.6214 miles

Round each of these two figures to 1 decimal place.

Use these values to estimate the length of the lap in km

[3 marks]



**1 (c)** Damon and Ralphie each complete 7 laps in the race on Sunday.

The median lap time for Damon is 1 minute and 17.924 seconds. This is shown as 1:17.924

The range of the lap times for Damon is 4.812 seconds.

The table below shows the lap times for Ralphie.

	Lap	1	2	3	4	5	6	7
(mi	Time inutes: conds)	1:21.467	1:19.148	1:17.986	1:16.008	1:16.810	1:17.841	1:18.462

Calculate the median **and** the range of times for Ralphie. Use these values to make **two** comparisons between the two racers.

[4 marks]

Your answer:

per hour. He completes this in 47.5 seconds.  Work out the length of the straight part of the track in miles.	
	[3 marks]
Your answer:	miles

	Damon is paid by 3 companies to advertise their brands on his race suit.
3	of the adverts are for Company A.
1 7	of the adverts are for Company B.
Т	he rest of the adverts are for Company C.
٧	Vhat fraction of the adverts are for Company C?
	[2 marks]
	Your answer:

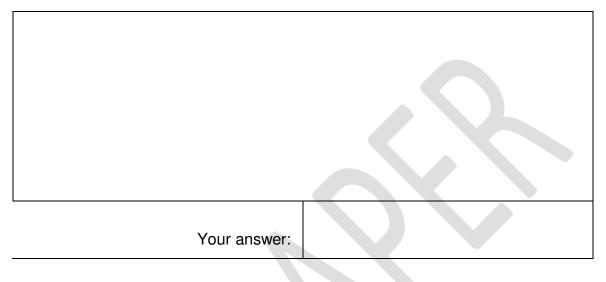
1 (e)

1 (f) 1 540 806 people followed Damon on social media last year.

This number increased by 674 957 people this year.

Work out 1 540 806 + 674 957

[1 mark]



[Total marks: 15]

This is the end of Section A.

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