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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		Mark
A	Activity 1	/ 15
B	Activity 2	/ 15
	Activity 3	/ 15
	Activity 4	/ 15
TOTAL MARK		/ 60

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.

PAST PAPER

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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%

[2 marks]

--

Your answer:

--

Please turn over

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]

PAST PAPER

Your answer:

km

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
Time (minutes: seconds)	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]

Blank area for student response.

Your
answer:

Blank area for student response.

Please turn over

- 1 (d)** Damon drives along a straight part of the track at an average speed of 126 miles 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

1 (e) Damon is paid by 3 companies to advertise their brands on his race suit.

$\frac{2}{3}$ of the adverts are for Company A.

$\frac{1}{7}$ of the adverts are for Company B.

The rest of the adverts are for Company C.

What fraction of the adverts are for Company C?

[2 marks]

<p>PAST PAPER</p>	
Your answer:	

Please turn over

- 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]

Your answer:	

[Total marks: 15]

This is the end of Section A.

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PAST PAPER



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