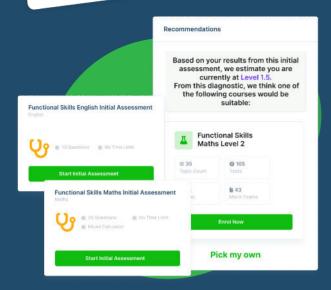
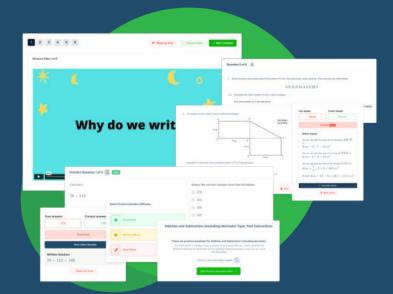




FUNCTIONAL SKILLS ONLINE COURSES



- 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

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]

multiplier 1.02

$$4650 \times 1.02 = 4743$$
 \times
 4650.00
 $+$
 4650.00
 $+$
 4650.00
 $+$
 4743.00

Your answer:

4743

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]

0.6214 = 0.6 to 1 decimal place

$$\frac{2.7}{0.5}$$
 = 4.5km



3.6

1.2 2

1.8 3

2.4 4

+0.3 2

Your answer:

4.5

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]

1:16.008, 1:16.810, 1:17.841, 1:17.986) 1:18.462,

1:19.48, 1:21.467 median

Range = biggest - smallest
$$\frac{1}{2}$$
1.487 - 16.008

= 21.467 - 16.008 $\frac{1}{0}$ 5.459

Median =
$$1:17.986$$

than that of Ralphie's.

Your answer:

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]

$$126 \div (60 \times 60) = 0.035$$
 miles per second.
 3600 seconds
in an hour $3600 \cdot 0.035$

distance = speed x time
=
$$0.035 \times 47.5$$

= 1.6625 miles

Your answer:

1.6625

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]

$$\frac{2}{3}x + \frac{1}{7} = \frac{14}{21} + \frac{3}{21}$$
$$= \frac{17}{21}$$

$$1 - \frac{17}{21} = \frac{4}{21}$$

Your answer:

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:

2215763

[Total marks: 15]

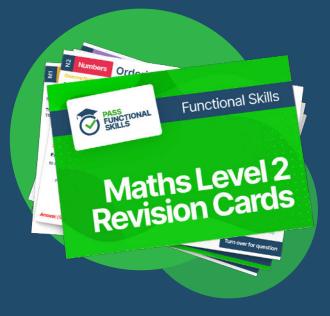
This is the end of Section A.







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