



**2025** TESTIFI EXAMINATION

# **Rounding Decimals**

**Solutions and Marking Guidelines**

## Section I

2 marks

Questions 1–2

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**Question 1** (1 mark)

**1**

C

First calculate the average:  $\frac{12.347+8.926+15.198}{3} = \frac{36.471}{3} = 12.157$ . Rounded to three decimal places, this gives 12.157 km.

**Question 2** (1 mark)

**1**

B

Looking at 6.834, the digit in the first decimal place is 8. The next digit is 3, which is less than 5, so we round down to 6.8.

## Section II

10 marks

Questions 3–5

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**Question 3** (2 marks)

**2**

\$4.678 rounds to \$4.68 (8 rounds up) \$9.994 rounds to \$9.99 (4 rounds down) \$2.105 rounds to \$2.11 (5 rounds up)

**Question 4** (4 marks)

**4**

Average time =  $\frac{18.476+19.832+17.695}{3} = \frac{56.003}{3} = 18.667666\dots$  minutes Rounded to three decimal places: 18.668 minutes Rounding would be more appropriate when reporting race results publicly or when the precision of the timing equipment only measures to the nearest hundredth of a second.

**Question 5** (4 marks)

**4**

Total mass =  $12.9847 + 8.7654 + 15.2891 = 37.0392$  g Rounded to two decimal places: 37.04 g Rounding would be more appropriate when the measuring instrument's precision is limited to two decimal places, or when reporting results where excessive precision might be misleading given measurement uncertainty.