

Answer Key — Reading & Writing Tenths

Year 4 Mathematics · Number and algebra · WA4MNADE1

Section A — Fluency (16 marks, 1 mark each)

1. 0.3
2. 6
3. 0.7
4. 2
5. 0.9
6. 5
7. 0.1
8. 4
9. 0.5
10. 9
11. 0.2
12. 1
13. 0.8
14. 3
15. 0.4
16. 8

Section B — Core (21 marks)

1. 0.6 m = $\frac{6}{10}$ m; this is made up of 6 tenths. [2 marks fraction, 1 mark tenths count]
2. 0.3 L poured out = $\frac{3}{10}$ L; remaining = $1 - 0.3 = 0.7$ L. [2 marks fraction, 2 marks remaining decimal]
3. $\frac{4}{10} = 0.4$; an equivalent fraction with denominator 5 is $\frac{2}{5}$ (divide top and bottom by 2). [2 marks decimal, 1 mark equivalent fraction]
4. $0.7 = \frac{7}{10}$; $\frac{7}{10}$ of 10 km = 7 km completed. [2 marks fraction, 2 marks calculation]
5. 0.1, 0.3, 0.4, 0.8. [3 marks, 1 deducted per ordering error]
6. $\frac{7}{10} = 0.7$, which is more than Tank A's 0.6, so Tank B is fuller, by $0.7 - 0.6 = 0.1$. [2 marks converting to decimal, 2 marks correct difference]

Section C — Reasoning (9 marks) — sample responses, award marks for valid reasoning

1. The digit after the decimal point represents tenths — how many of the 10 equal parts that make up one whole are being counted, e.g. in 0.6, the 6 means six tenths. [2 marks]
2. 0.5 represents five tenths of a whole (a part of 1), while 5 represents five whole ones — they are very different sizes, with 0.5 being much smaller than 5. [2 marks]
3. The tenths place in a decimal directly corresponds to a fraction with denominator 10, so 0.3 means 3 in the tenths place, which is exactly the fraction $\frac{3}{10}$. [2 marks]
4. False. The number of digits doesn't determine size on its own, e.g. 0.9 is bigger than 0.12, even though 0.12 has more digits, because $0.9 = 0.90$, which has more tenths. [2 marks valid example, 1 mark for correctly saying false]

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Section D — Challenge (7 marks)

1. Any valid decimal works, e.g. 0.5, since $0.4 < 0.5 < 0.6$. [2 marks]
2. $0.5 + 0.3 = 0.8$, which is the fraction $\frac{8}{10}$. [2 marks]
3. $0.4 + 0.3$ ($\frac{3}{10} = 0.3$) = 0.7 of a tin used in total; $1 - 0.7 = 0.3$ of a tin remains unused. [2 marks correct total, 1 mark correct remainder]