

Place Value and Ordering Numbers

Maths

Level 2

Exam-style practice · 12 questions · 25 marks · Non-calculator

Remember

Place value: in 4,725,318 the 7 is worth 700,000 (seven hundred thousand). Read large numbers in groups of three from the right: *4 million, 725 thousand, 318*.

Negative numbers: further left on the number line is smaller: $-8 < -3 < 0 < 2$. A temperature rise from -4°C to 5°C is a change of 9 degrees.

Ordering decimals: line up the decimal points and compare digit by digit: $0.7 > 0.65 > 0.605$. Add zeros to help: 0.700, 0.650, 0.605.

Section A – Reading and writing numbers

1. The population of a city is 1,384,207. (a) Write this number in words. (b) What is the value of the digit 8? (c) Round it to the nearest ten thousand. (3 marks)

2. A charity's annual report says it raised £2.65 million. Write this amount in figures. (1 mark)

3. Write these numbers in order, smallest first: 60,540 65,040 60,054 65,400 60,450
(2 marks)

4. A warehouse counter reads 0 3 9 8 4 6. The manager says 'nearly forty thousand'. Is she right? Explain. (2 marks)

Section B – Negative numbers

5. The temperatures in five towns one January morning were: Ashby -3°C , Brookford 2°C , Carlow -7°C , Denton 0°C , Elmsley -1°C . (a) Write the towns in order from coldest to warmest. (b) What is the difference between the coldest and warmest? (3 marks)

6. Kofi's bank balance is $-\pounds 142.50$. He is paid $\pounds 310$, then pays a bill of $\pounds 185$. What is his new balance? (2 marks)

7. A freezer is at -18°C . It is switched off and warms by 4 degrees every hour. What temperature is it after 3 hours? After how many hours will it be above 0°C ? (3 marks)

8. A lift starts at floor -2 (the lower car park), goes up 7 floors, then down 4 floors. Which floor is it on? (1 mark)

Section C – Decimals and mixed

9. Five runners' times (seconds) were 12.09, 12.9, 12.1, 12.19 and 12.01. Write them in order, fastest first. (2 marks)

10. A pack of screws is labelled 4.5 mm. Screws measuring 4.45 mm, 4.55 mm, 4.05 mm and 4.5 mm are in the box. Which are thicker than the label says? (2 marks)

11. Put these in order, smallest first: -2.5 , 0.25 , -0.5 , 2.05 , -2.05 (2 marks)

12. A company's profit was $-\pounds 12,400$ in 2024 and $\pounds 8,650$ in 2025. By how much did the profit improve? (2 marks)

Place Value and Ordering Numbers – Answers

Level 2 · Working shown so you can check your method, not just the final number.

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Section A

- (a) One million, three hundred and eighty-four thousand, two hundred and seven. (b) **80,000** (eighty thousand). (c) **1,380,000**.
- £2,650,000**.
- 60,054 60,450 60,540 65,040 65,400.
- The counter reads 39,846. **Yes** – 39,846 rounds to 40,000 to the nearest thousand (it is 154 short).

Section B

- (a) Carlow (–7), Ashby (–3), Elmsley (–1), Denton (0), Brookford (2). (b) From –7 to 2 is **9 degrees**.
- $-142.50 + 310 = 167.50$; $167.50 - 185 = \textbf{-£17.50}$ (still overdrawn).
- After 3 hours: $-18 + 12 = \textbf{-6 °C}$. It needs to warm by more than 18 degrees: $18 \div 4 = 4.5$, so it is above 0 °C after **5 hours** (at 4 hours it is exactly –2 °C; at 5 hours +2 °C).
- $-2 + 7 - 4 = \textbf{floor 1}$.

Section C

- 12.01, 12.09, 12.1, 12.19, 12.9. (Write them as 12.01, 12.09, 12.10, 12.19, 12.90 to compare.)
- 4.55 mm** only. 4.5 is equal, 4.45 and 4.05 are thinner.
- 2.5, –2.05, –0.5, 0.25, 2.05. (–2.5 is further from zero than –2.05, so it is smaller.)
- From –12,400 to 8,650 is $12,400 + 8,650 = \textbf{£21,050}$.

Where Level 2 students lose marks on place value and ordering numbers

- Reading 39,846 as 'thirty-nine thousand eight hundred and forty-six' correctly but then rounding the wrong way – rounding to the nearest thousand looks at the hundreds digit.
- Treating –7 as bigger than –3 because 7 is bigger than 3. On a thermometer, –7 is colder.
- Comparing decimals by length: thinking 12.19 is bigger than 12.9 because it has more digits.