

CLASS 7

MATHS

EXTRA QUESTIONS

Extra Questions for Class 7 Maths Chapter 3: A Peek Beyond the Point – HOTS

Fresh HOTS-level extra questions for Class 7 Maths Chapter 3 (A Peek Beyond the Point), with numbers not found in the NCERT book. Full worked solutions included.

Fresh HOTS-level extra questions for Class 7 Maths Chapter 3 (A Peek Beyond the Point), with numbers not found in the NCERT book. Full worked solutions included.

Q1. Add: $12.075 + 8.9 + 0.36$

Solution: $12.075 + 8.9 = 20.975$; $+0.36 = 21.335$.

Q2 (Subtraction with borrowing). Find $50 - 23.456$.

Solution: $50.000 - 23.456 = 26.544$.

Q3 (Assertion–Reason). Assertion (A): 3.7 is greater than 3.65. Reason (R): Comparing decimals means comparing the total number of digits.

Solution: A is **true** ($3.70 > 3.65$, since $7 > 6$ at the tenths place). R is **false** — comparison is based on place value, not digit count (e.g. 3.7 has fewer digits than 3.65 but is still larger). **A is true; R is false.**

Q4 (Word problem). A runner completes a race in 12.6 seconds in round 1 and improves by 0.85 seconds in round 2. What is the round 2 time?

Solution: $12.6 - 0.85 = 11.75$ seconds.

Q5 (Ordering). Arrange in ascending order: 6.05, 6.5, 6.055, 6.505, 6.5005.

Solution: Comparing place by place: **$6.05 < 6.055 < 6.5 < 6.5005 < 6.505$** .

Q6 (Unit conversion). Convert 2.5 km to metres, then to centimetres.

Solution: $2.5 \text{ km} = 2.5 \times 1000 = 2,500 \text{ m}$. In cm: $2,500 \times 100 = 2,50,000 \text{ cm}$.

Q7 (Spot the error). A student says $0.8 + 0.09 = 0.17$. Find and correct the error.

Solution: **Incorrect** — the student appears to have added the digits ($8+9=17$) without aligning place values. Correctly: $0.80 + 0.09 = 0.89$.

Q8 (Money problem). A shopkeeper sells 3 items priced ₹45.50, ₹12.75, and ₹8.25. What change is due from a ₹100 note?

Solution: Total = $45.50 + 12.75 + 8.25 = ₹66.50$. Change = $100 - 66.50 = ₹33.50$.

Q9 (Digit puzzle). Using the digits 3, 0, 7, 2 exactly once, form the decimal closest to 50 (whole-number part from 2 digits, decimal part from the other 2).

Solution: Best whole-number part using two of the digits: 70 (using 7,0) is 20 away from 50; 32 (using 3,2) is 18 away — so **32** is closer. Remaining digits 7, 0 arranged for smallest addition: **32.07**.

Q10 (Sequence). Find the next 3 terms: 2.5, 2.75, 3.0, 3.25, ____, ____, ____

Solution: Common difference = $+0.25$. Next terms: **3.5, 3.75, 4.0**.