

CBSE Class 5 — Mathematics**Decimals Case Study Worksheet — Case Study 1**

Name:	Class: 5	Section: _____
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Case Study

Arjun went to a stationery shop with his mother. He bought a notebook for ₹35.50, a geometry box for ₹64.25, and a set of sketch pens for ₹48.75. He gave the shopkeeper a ₹200 note. The shopkeeper needs to calculate the total bill and the change to be returned to Arjun.

Answer the following questions based on the case study above:

1. What is the total cost of the notebook and the geometry box? *[1 Mark]*
2. What is the total bill for all three items? *[1 Mark]*
3. How much change should the shopkeeper return from ₹200? *[1 Mark]*
4. If Arjun buys one more sketch pen set at the same price, what will the new total bill be? *[1 Mark]*
5. Round the total bill for all three original items to the nearest whole rupee. *[1 Mark]*

Answer Key — Case Study 1 (Decimals)

1. $35.50 + 64.25 = ₹99.75$
2. $35.50 + 64.25 + 48.75 = ₹148.50$
3. $200 - 148.50 = ₹51.50$
4. $148.50 + 48.75 = ₹197.25$
5. ₹148.50 rounds to ₹149

CBSE Class 5 — Mathematics**Decimals Case Study Worksheet — Case Study 2****Name:****Class: 5****Section:** _____**Case Study**

During a Sports Day, the school recorded the timings of the 100 m race for the top 4 finishers. Sameer finished in 15.6 seconds, Tara finished in 14.85 seconds, Kabir finished in 15.09 seconds, and Zoya finished in 14.9 seconds. The sports teacher wants to prepare the final ranking, from fastest to slowest, and calculate the time differences.

Answer the following questions based on the case study above:

1. Who finished the race first (fastest time)? [1 Mark]
2. Arrange the four timings in ascending order (fastest to slowest). [1 Mark]
3. What is the time difference between Tara and Zoya? [1 Mark]
4. What is the time difference between the fastest and the slowest runner? [1 Mark]
5. If Sameer had run 0.65 seconds faster, what would his new timing be, and would it change the ranking? [1 Mark]

Answer Key — Case Study 2 (Decimals)

1. Tara, with 14.85 seconds
2. 14.85 (Tara), 14.9 (Zoya), 15.09 (Kabir), 15.6 (Sameer)
3. $14.9 - 14.85 = 0.05$ seconds
4. $15.6 - 14.85 = 0.75$ seconds
5. $15.6 - 0.65 = 14.95$ seconds; this is still slower than Tara (14.85) and Zoya (14.9), so Sameer would move to 3rd place, ahead of Kabir