

Chapter 3 Class 7

A Peek Beyond The Point

- Mix Questions

Worksheet 2

by *teachoo*

Chapter: [Chapter 3 Class 7 Maths – A Peek Beyond Point](#)

Name: _____

School: _____

Roll Number: _____

1. (3 Marks) You are building a model airplane and need a support rod of exactly 0.6 m . You find two spare rods: one is 0.58 m and the other is 0.61 m . Which rod is useful for your project and why? What about the other rod?
2. (3 Marks) A biologist is growing a bacterial culture. Its mass was 5.3 g on Monday morning. By Tuesday morning, its mass was 7.1 g . What was the growth in mass that the biologist should record for that 24 -hour period?
3. (3 Marks) Three friends are in a race to save 1.5 GB of mobile data for the month-end. Anil has used 1.35 GB, Sunil has used 1.05 GB, and Ravi has used 1.45 GB.

Who is closest to achieving the goal? Justify your answer.

4. (3 Marks) At a currency exchange, the rate for USD is ₹83.55, but a digital kiosk shows the rate as ₹83.552. What is the practical difference between these two rates if you were exchanging \$1000 ?

5. (5 Marks) You are at a cafe. You order a coffee for ₹135.50, a sandwich for ₹180.75, and a pastry for ₹95.25. The cafe adds a 5% service charge to the total.
 - a) What is the total cost of the food items?
 - b) Calculate the 5% service charge on the total.
 - c) What is the final bill amount you have to pay?

6. (5 Marks) A city's air quality index (AQI) is monitored daily. On Monday it was 115.3 , Tuesday 88.8 , and Wednesday 210.2 . An AQI above 200 is considered "Very Poor".
 - a) What was the total AQI reading over the three days? (This is not a meaningful metric, but tests the calculation).
 - b) On which day was the air quality a major health concern? Explain why.
 - c) What is the difference in AQI between the best and worst day?

7. (5 Marks) A fashion designer has a 10.0-meter roll of silk. They cut three pieces for a dress: 2.5 m, 1.75 m, and 3.2 m . The cutting laser vaporizes 0.001 m of cloth for each cut made.
 - a) What is the total length of the three finished pieces?
 - b) How much silk was lost to the laser in total for the three cuts?
 - c) How much silk is actually left on the roll for future projects?

8. (5 Marks) Explain to a friend how to find the 3.47-meter mark on a long measuring tape marked in meters and centimeters. Where would it be in relation to the 3-meter

mark, the 3.4-meter mark, and the 3.5-meter mark?

9. (5 Marks) Using the digits 2, 8, 1, and 5 exactly once, and a decimal point:
- Create the largest possible number.
 - Create the smallest possible number.
 - Create a number representing a weight in kg that a person could realistically lift (e.g., between 10 and 100 kg). Explain your digit placement.
10. (5 Marks) A scientist is preparing a saline solution that requires exactly 0.25 ml of salt concentrate in 9.75 ml of pure water. The scientist accidentally adds 2.5 ml of concentrate to the water.
- The accidental solution is how many times more concentrated than the intended one?
 - Why is writing " 0.25 " instead of " .25 " a critical safety protocol in a lab?
 - To salvage the mistake, how much pure water must be added to the faulty mixture to dilute it back to the correct concentration? (This is a challenging conceptual question).

Important links

- Answer of this worksheet - <https://www.teachoo.com/25615/5373/Mix-Questions---Worksheet-2/category/Teachoo-Questions---Mix/>
- Full Chapter with Explanation, Activity, Worksheets and more – <https://www.teachoo.com/subjects/cbse-maths/class-7/chapter-3-ganit-prakash/>
- Science Class 7 – <https://www.teachoo.com/subjects/science/class-7/>
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