

CASE STUDY (FIELDS AND FENCES)

A farmer named Meera has three fields. She wants to put fences around each field to keep animals out and also wants to know how much land (area) is available to grow crops. Meera measures the length and breadth of each field.

Field 1: Rectangular field with length = 15 meters, breadth = 10 meters

Field 2: Square field with each side = 12 meters

Field 3: Rectangular field with length = 20 meters, breadth = 5 meters
Meera wants to:

1. Build fences around all the fields (calculate perimeter).
2. Plant crops inside the fields (calculate area).

Answer the following questions based on the case study above

Q1. What is the perimeter of Field 1?

- A. 50 m
- B. 60 m
- C. 40 m
- D. 25 m

Q2. What is the area of Field 2?

- A. 144 sq m
- B. 24 sq m
- C. 48 sq m
- D. 60 sq m

Q3. Which field has the smallest perimeter?

- A. Field 1
- B. Field 2
- C. Field 3
- D. All same

Q4. What is the area of Field 3?

- A. 100 sq m
- B. 25 sq m
- C. 60 sq m
- D. 75 sq m

Q5. Meera wants to buy fencing for Field 2. How much fencing wire does she need?

- A. 48 meters
- B. 50 meters
- C. 30 meters
- D. 24 meters

