CBSE Class 5 — Mathematics

Fractions Word Problems Worksheet — Word Problem Set 1

Name:	Class: 5	Section: _____

Difficulty Level: Difficult — Solve the following word problems. Show your working.

1. A farmer has a field of 5/8 hectare planted with wheat and 1/4 hectare planted with mustard. What fraction of the field is planted in total, and what fraction is still unplanted if the total field is 1 hectare? *[2 Marks]*

2. Meera bought 3 1/2 kg of rice and used 1 3/4 kg to cook meals for the week. How much rice is left with her? *[2 Marks]*

3. A water tank is 7/9 full. If 2/9 of the tank's water is used for watering the garden, what fraction of the tank is now full? *[2 Marks]*

4. In a class of 45 students, 2/5 are girls. Of the girls, 1/3 wear glasses. How many girls wear glasses? *[2 Marks]*

5. A tailor has 12 3/4 m of cloth. He uses 3 1/4 m to stitch a shirt and 4 1/2 m to stitch trousers. How much cloth is left? *[2 Marks]*

6. Rohan read 3/8 of a 240-page book on Monday and 1/4 of the book on Tuesday. How many pages has he read in total, and how many pages are left? *[2 Marks]*

7. A recipe needs 2/3 cup of sugar. Priya wants to make 1 1/2 times the recipe for a bigger party. How much sugar does she need? *[2 Marks]*

8. Two pipes fill a tank. Pipe A fills 3/10 of the tank in an hour and Pipe B fills 2/5 of the tank in an hour. If both pipes run together for one hour, what fraction of the tank is filled? Is the tank full after one hour? *[2 Marks]*

9. A shopkeeper had 60 kg of sugar. He sold 1/3 of it in the morning and 2/5 of the remaining sugar in the evening. How much sugar is left with him? *[2 Marks]*

10. A journey of 36 km is divided into three parts. The first part is 1/3 of the journey, the second part is 1/4 of the journey, and the rest is the third part. Find the distance covered in each part. *[2 Marks]*

Answer Key — Word Problem Set 1 (Fractions)

1. 5/8 + 1/4 = 5/8 + 2/8 = 7/8 hectare planted; unplanted = 1 − 7/8 = 1/8 hectare

2. 3 1/2 − 1 3/4 = 7/2 − 7/4 = 14/4 − 7/4 = 7/4 = 1 3/4 kg left

3. 7/9 − 2/9 = 5/9 of the tank full

4. Girls = 2/5 of 45 = 18; girls wearing glasses = 1/3 of 18 = 6 girls

5. 12 3/4 − 3 1/4 − 4 1/2 = 51/4 − 13/4 − 9/2 = 38/4 − 18/4 = 20/4 = 5 m left

6. 3/8 + 1/4 = 3/8 + 2/8 = 5/8 of the book read = 150 pages; pages left = 240 − 150 = 90 pages

7. 2/3 × 3/2 = 6/6 = 1 cup of sugar needed

8. 3/10 + 2/5 = 3/10 + 4/10 = 7/10 of the tank filled; not full, 3/10 remains empty

9. Sold in morning = 1/3 of 60 = 20 kg; remaining = 40 kg; sold in evening = 2/5 of 40 = 16 kg; sugar left = 40 − 16 = 24 kg

10. First part = 1/3 of 36 = 12 km; second part = 1/4 of 36 = 9 km; third part = 36 − 12 − 9 = 15 km

CBSE Class 5 — Mathematics

Fractions Word Problems Worksheet — Word Problem Set 2

Name:	Class: 5	Section: _____

Difficulty Level: Difficult — Solve the following word problems. Show your working.

1. A pizza is cut into 8 equal slices. Aman eats 3/8 of the pizza and his sister eats 2/8. What fraction of the pizza is left, and how many slices does that represent? *[2 Marks]*

2. A carpenter has a plank of wood 9 3/5 m long. He cuts it into 4 equal pieces to make table legs. How long is each piece? *[2 Marks]*

3. In a garden, 3/7 of the flowers are roses, 2/7 are marigolds, and the rest are sunflowers. What fraction of the flowers are sunflowers? *[2 Marks]*

4. A milkman sells 5/6 of his milk in the morning and 1/12 of the remaining milk in the evening. What fraction of the total milk is left unsold? *[2 Marks]*

5. Kabir spent 2/5 of his pocket money of ₹250 on books and 1/4 of the remaining money on a pen. How much money does he have left? *[2 Marks]*

6. A wall needs to be painted. Painter A can paint 3/8 of the wall in a day and Painter B can paint 5/12 of the wall in a day. Working together for one day, what fraction of the wall is painted? *[2 Marks]*

7. A jug contains 2 3/4 litres of juice. It is poured equally into 5 glasses. How much juice does each glass get? *[2 Marks]*

8. Out of 56 mangoes in a basket, 3/8 were rotten and had to be thrown away. How many good mangoes are left? *[2 Marks]*

9. A train covers 2/5 of its total journey of 450 km before its first stop, and 1/3 of the journey after the stop. What distance is left to travel? *[2 Marks]*

10. Simran's height is 4/5 of her father's height. If her father is 175 cm tall, what is Simran's height, rounded to the nearest whole centimetre? *[2 Marks]*

Answer Key — Word Problem Set 2 (Fractions)

1. Eaten = 3/8 + 2/8 = 5/8; left = 1 − 5/8 = 3/8 of the pizza = 3 slices

2. 9 3/5 ÷ 4 = 48/5 ÷ 4 = 48/20 = 12/5 = 2 2/5 m each

3. 1 − (3/7 + 2/7) = 1 − 5/7 = 2/7 of the flowers are sunflowers

4. Sold in morning = 5/6; remaining = 1/6; sold in evening = 1/12 of 1/6 = 1/72; unsold = 1/6 − 1/72 = 12/72 − 1/72 = 11/72 of the total milk

5. Spent on books = 2/5 of 250 = ₹100; remaining = ₹150; spent on pen = 1/4 of 150 = ₹37.5; money left = 150 − 37.5 = ₹112.5

6. 3/8 + 5/12 = 9/24 + 10/24 = 19/24 of the wall painted

7. 2 3/4 ÷ 5 = 11/4 ÷ 5 = 11/20 litre per glass

8. Rotten = 3/8 of 56 = 21; good mangoes = 56 − 21 = 35

9. Covered = 2/5 + 1/3 = 6/15 + 5/15 = 11/15 of the journey; left = 4/15 of 450 = 120 km

10. 4/5 of 175 = 700/5 = 140 cm