

Grade 4 Mathematics - Chapter 6

The Junk Seller

Original CBSE/NCERT-aligned learning material for Paryan's Learning Hub

Learning goals

Use money in real-life situations, add and subtract amounts, multiply prices, compare costs, calculate change, and solve buying-and-selling word problems.

1. Mathematics in a Shop

Buying and selling involve mathematics every day. We need to read prices, add costs, calculate change and compare amounts. A junk seller may buy old paper, bottles, metal or cardboard and calculate their value.

Example

If 1 kg of old paper is worth Rs. 12, then 5 kg is worth $5 \times 12 = \text{Rs. 60}$.

Item	Price per kg
Old paper	Rs. 12
Cardboard	Rs. 8
Plastic	Rs. 15
Metal	Rs. 25

Practice A - Use the Price Table

1. What is the cost of 3 kg of old paper?
2. What is the cost of 4 kg of cardboard?
3. What is the cost of 2 kg of metal?
4. Which costs more: 2 kg of plastic or 3 kg of cardboard? By how much?

2. Addition with Money

When several things are sold together, add their values to find the total.

Example: Paper sells for Rs. 36 and plastic sells for Rs. 45. Total = $36 + 45 = \text{Rs. 81}$.

Practice B

1. Rs. 125 + Rs. 75 = _____
2. Rs. 248 + Rs. 136 = _____
3. Rs. 450 + Rs. 275 = _____
4. A seller earns Rs. 185 in the morning and Rs. 240 in the evening. Find the total.

3. Subtraction and Change

Subtraction helps us find change or the difference between two amounts.

Example: An item costs Rs. 68. You pay Rs. 100. Change = $100 - 68 = \text{Rs. } 32$.

Practice C

1. You pay Rs. 200 for an item costing Rs. 145. Find the change.
2. $\text{Rs. } 500 - \text{Rs. } 278 = \underline{\hspace{2cm}}$
3. One seller earns Rs. 650 and another earns Rs. 485. Find the difference.
4. You have Rs. 1,000 and spend Rs. 675. How much remains?

4. Multiplication and Price

If the same price is repeated, multiplication gives the total quickly. For example, 6 bags at Rs. 25 each cost $6 \times 25 = \text{Rs. } 150$.

Practice D

1. 7 kg of material costs Rs. 10 per kg. Find the total.
2. 8 bottles are worth Rs. 6 each. Find their total value.
3. 12 boxes cost Rs. 15 each. Find the total cost.
4. A seller buys 9 bundles at Rs. 24 each. How much does the seller pay?

5. Word Problems

1. Riya sells old newspapers for Rs. 135 and cardboard for Rs. 85. How much does she receive altogether?
2. A junk seller has Rs. 800. He spends Rs. 365 buying recyclable material. How much money is left?
3. A family collects 6 kg of paper. If paper is worth Rs. 12 per kg, how much will they receive?
4. Aman sells metal for Rs. 175 and plastic for Rs. 90. He spends Rs. 120 from this money. How much remains?
5. A shop buys 15 sacks at Rs. 20 each. Find the total cost.

6. Make Your Own Mini Shop

Imagine you run a recycling shop. Choose prices for four items and complete the table. Then ask a family member to choose quantities and calculate the total.

Item	Price	Quantity	Total
Paper	Rs. ____	____	Rs. ____
Plastic	Rs. ____	____	Rs. ____
Metal	Rs. ____	____	Rs. ____
Cardboard	Rs. ____	____	Rs. ____

7. Challenge Questions

1. A seller buys 8 kg of material at Rs. 15 per kg and sells it for Rs. 145 in total. How much more is the selling amount than the buying amount?
2. Three customers pay Rs. 125, Rs. 240 and Rs. 315. Find the total money received.
3. A seller has Rs. 2,000. After buying goods, Rs. 735 remains. How much was spent?
4. Make a money problem whose answer is Rs. 500.

8. Quick Quiz

1. Rs. 250 + Rs. 175 = _____
2. Rs. 600 - Rs. 245 = _____
3. 5 items at Rs. 20 each cost _____
4. Change from Rs. 100 after spending Rs. 64 is _____
5. 10 kg at Rs. 12 per kg = _____

Answer Key

Practice A: 1) Rs. 36; 2) Rs. 32; 3) Rs. 50; 4) 2 kg plastic = Rs. 30, 3 kg cardboard = Rs. 24, so plastic costs Rs. 6 more.

Practice B: Rs. 200; Rs. 384; Rs. 725; Rs. 425.

Practice C: Rs. 55; Rs. 222; Rs. 165; Rs. 325.

Practice D: Rs. 70; Rs. 48; Rs. 180; Rs. 216.

Word Problems: Rs. 220; Rs. 435; Rs. 72; Rs. 145; Rs. 300.

Challenge: 1) Buying amount Rs. 120, difference Rs. 25; 2) Rs. 680; 3) Rs. 1,265; 4) Answers vary.

Quick Quiz: Rs. 425; Rs. 355; Rs. 100; Rs. 36; Rs. 120.

