Multiplication of Rupees and Paise

Understanding Notes

In this topic, we learn how to multiply amounts of money by a number. The key is to handle the rupees and paise separately, just like in simple multiplication, and then combine the results.

₹ 7	•	52 ×5
₹37		60

Steps to Multiply Rupees and Paise by a Number:

- i. **Multiply Paise by the Number:** Start by multiplying the paise part of the money by the number.
- ii. Multiply Rupees by the Number: Next, multiply the rupees part by the number.
- iii. **Convert Paise to Rupees:** If the product of the paise is 100 or more, convert the paise into rupees (100 paise = 1 rupee) and add it to the rupees.
- iv. Final Result: Combine the rupees and paise for the final answer.

Examples:

- Multiply ₹ 12.50 by 3
- ✓ **Multiply paise:** $50 \times 3 = 150$ paise = 1 rupee and 50 paise.
- ✓ **Multiply rupees:** $12 \times 3 = 36$ rupees.
- \checkmark Add the rupees from paise: 36 + 1 = 37 rupees and 50 paise.

Answer: ₹ 37.50.

- Multiply ₹ 5.75 by 4
- ✓ **Multiply paise:** $75 \times 4 = 300$ paise = 3 rupees.
- ✓ **Multiply rupees:** $5 \times 4 = 20$ rupees.
- \checkmark Add the rupees from paise: 20 + 3 = 23 rupees.

Answer: ₹ 23.00.

- Multiply ₹ 7.25 by 2
- ✓ **Multiply paise:** $25 \times 2 = 50$ paise.
- ✓ **Multiply rupees:** $7 \times 2 = 14$ rupees.

Answer: ₹ 14.50.

Multiply ₹ 3.80 by 5

- ✓ **Multiply paise:** $80 \times 5 = 400$ paise = 4 rupees.
- ✓ **Multiply rupees:** $3 \times 5 = 15$ rupees.
- ✓ Add the rupees from paise: 15 + 4 = 19 rupees.
- **Answer:** ₹ 19.00.
- Multiply ₹ 10.60 by 6
- ✓ **Multiply paise:** $60 \times 6 = 360$ paise = 3 rupees and 60 paise.
- ✓ **Multiply rupees:** $10 \times 6 = 60$ rupees.
- \checkmark Add the rupees from paise: 60 + 3 = 63 rupees and 60 paise.
- **Answer:** ₹ 63.60.

Visual Representation:

- > ₹15.90×2
- ✓ **Multiply paise:** $90 \times 2 = 180$ paise = 1 rupee and 80 paise.
- ✓ **Multiply rupees:** $15 \times 2 = 30$ rupees.
- \checkmark Add the rupees from paise: 30 + 1 = 31 rupees and 80 paise.

Answer: ₹ 31.80.

Summary:

- Multiply paise first, then convert to rupees if needed.
- Multiply rupees and add the rupees from paise conversion.
- Ensure both parts (rupees and paise) are handled properly during multiplication.