Receipt Detectives

Pupil investigation - find, repair and check

All prices are invented. No real shopping or family receipts are needed.
Quantities and prices are correct. Exactly TWO printed line amounts are wrong.

Item	Quantity	Price each	Printed amount
Notebooks	3	Rs 24	Rs 62
Pencils	4	Rs 7	Rs 28
Erasers	2	Rs 9	Rs 16
Ruler	1	Rs 15	Rs 15

Total: _____ Paid: Rs 200 Change: _____

The total and change are blank on purpose; they are not errors.

1. Circle the two wrong printed amounts in the receipt.

2. Repair each one. Show a calculation, drawing or explanation.

Correction 1:

Correction 2:

3. Add the four corrected amounts. What is the total?

4. Find the change from Rs 200.

5. Check: total + change = amount paid. Show it here.

You may explain aloud, draw or ask someone to scribe your reasoning.

Receipt Detectives

Teacher checking key and evidence

Use with two 35-minute lessons. Read prompts aloud as needed.
The two errors are independent wrong products in rows 1 and 3.
Total and change were deliberately blank, so they add no further errors.

Item	Quantity	Price each	Correct amount
Notebooks	3	Rs 24	Rs 72
Pencils	4	Rs 7	Rs 28
Erasers	2	Rs 9	Rs 18
Ruler	1	Rs 15	Rs 15

The two repairs

Notebooks: 3 x 24 = (3 x 20) + (3 x 4) = 60 + 12 = Rs 72, not Rs 62.
Erasers: 2 x 9 = 9 + 9 = Rs 18, not Rs 16.
Keep pencils: 4 x 7 = Rs 28. Keep ruler: 1 x 15 = Rs 15.

Correct total, change and inverse check

72 + 28 + 18 + 15 = 100 + 33 = Rs 133.
200 - 133 = Rs 67 change.
Counting up: 133 + 7 = 140; 140 + 60 = 200; 7 + 60 = 67.
Inverse check: 133 + 67 = 200.

Notice a consistent answer from the wrong receipt

Printed amounts add to 121, giving 79 change. If a pupil gets that result, their subtraction may work, but they have not carried the repairs forward.

Individual exit task

Two cards at Rs 18 each; paid Rs 50. Cost: Rs 36. Change: Rs 14.
Check: 36 + 14 = 50. Keep the pupil explanation and note any support.

Observe

Equal groups -> repairs justified -> corrected amounts totalled -> change checked.
Allow oral, home-language, large-print, drawn or scribed evidence.
No family spending disclosures or real purchases.
Source connection: NCERT Learning Outcomes, Class IV maths, printed p.61.
ncert.nic.in/pdf/publication/otherpublications/tilops101.pdf