

Class Points Store

Teacher Guide · Solutions · Rubric

Grade 2 · All levels

Overview

Students spend class reward points (not real money) at a pretend store. They add and subtract within 100 with place value, add up to four prices, check with the related operation, and explain strategies.

Time: 2 class periods · **Product:** Shopping Plan
Standards: 2.NBT.B.5, 2.NBT.B.6, 2.NBT.B.9
Prerequisite skills: Tens and ones to 100; Facts within 20 (Unit 1)

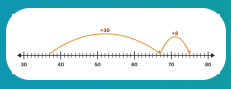
Learning targets

- I can add and subtract within 100 using place value.
- I can add up to four two-digit numbers.
- I can explain why my strategy works.

Timing and materials

- Day 1 (40 min): shopping with two prices (Parts 1–2).
- Day 2 (40 min): four-item baskets, checking and explaining (Parts 3–4).

Materials: Base-ten blocks; Price cards (printable support page); Open number line strips; Pencils. No accounts, paid products or student personal information are needed.



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The three versions

- Remedial: hints for a first step, partly filled tables, sentence frames and fewer open choices; the same learning targets.
- Standard: the full task set at grade level; students choose their strategies and models.
- Advanced: open design constraints, missing information, error analysis and a written justification; no hints.

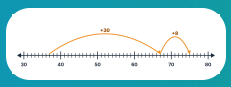
All versions use the same context and learning targets, so groups can share and compare work.

Implementation notes

- Ask students to say what happened to the tens and ones.
- Use blocks to show trading 10 ones for 1 ten.
- Advanced students plan a basket that uses exactly their points and compare two strategies.
- Before Part 1, read the challenge aloud and ask students to restate the goal.
- Close with a gallery walk: each group explains one strategy.

Rubric

Learning target	4 Exceeds	3 Meets	2 Approaching	1 Beginning
I can add and subtract within 100 using place value.	Correct and complete; explains how	Mostly correct	Partly correct	Not yet
I can add up to four two-digit numbers.	Correct and complete; explains how	Mostly correct	Partly correct	Not yet
I can explain why my strategy works.	Correct and complete; explains how	Mostly correct	Partly correct	Not yet
I can explain my thinking with pictures, numbers and words.	Clear for every part	Clear for most parts	Some explanation	Little explanation
My shopping plan is complete and matches my math.	Complete, neat, accurate	Complete	Partly complete	Not complete



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Solutions · Remedial KEY

Part 1: Two Prizes

A sticker pack costs 23 points and a pencil costs 14 points.

1. How many points do both cost?

37 points

2. You have 60 points. How many points are left after you buy both?

23 points

Part 2: Checking

Mia had 60 points and spent 23. She says she has 37 left.

3. Check with addition. Is she right?

Yes: 37 + 23 = 60

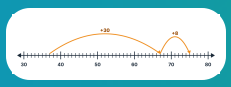
Part 3: Basket of Prizes

Add all the prices in the basket.

Prize	Points
Prize 1	12
Prize 2	15
Prize 3	21
Total	

4. Prices: 12, 15, 21. What is the total?

48 points



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Part 4: Explain a Strategy

Find 47 − 14.

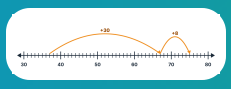
5. Solve it and explain your strategy with tens and ones.

33. For example: count up from 14 or break apart 14 into tens and ones.

Extension

The store has a sale: every prize costs 10 points less. What does the basket cost now?

18 points



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Solutions · Standard KEY

Part 1: Two Prizes

A sticker pack costs 37 points and a pencil costs 28 points.

1. How many points do both cost?

65 points

2. You have 85 points. How many points are left after you buy both?

20 points

Part 2: Checking

Mia had 85 points and spent 37. She says she has 48 left.

3. Check with addition. Is she right?

Yes: 48 + 37 = 85

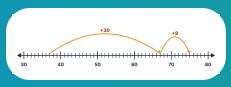
Part 3: Basket of Prizes

Add all the prices in the basket.

Prize	Points
Prize 1	18
Prize 2	26
Prize 3	14
Prize 4	32
Total	

4. Prices: 18, 26, 14, 32. What is the total?

90 points



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Part 4: Explain a Strategy

Find 75 − 28.

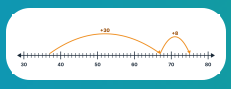
5. Solve it and explain your strategy with tens and ones.

47. For example: count up from 28 or break apart 28 into tens and ones.

Extension

The store has a sale: every prize costs 10 points less. What does the basket cost now?

50 points



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Solutions · Advanced KEY

Part 1: Two Prizes

A sticker pack costs 48 points and a pencil costs 37 points.

1. How many points do both cost?

85 points

2. You have 100 points. How many points are left after you buy both?

15 points

Part 2: Checking

Mia had 100 points and spent 48. She says she has 52 left.

3. Check with addition. Is she right?

Yes: 52 + 48 = 100

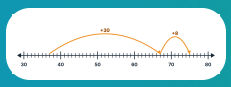
Part 3: Basket of Prizes

Add all the prices in the basket.

Prize	Points
Prize 1	27
Prize 2	19
Prize 3	36
Prize 4	15
Total	

4. Prices: 27, 19, 36, 15. What is the total?

97 points



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Part 4: Explain a Strategy

Find 95 − 37.

5. Solve it and explain your strategy with tens and ones.

58. For example: count up from 37 or break apart 37 into tens and ones.

Part 5: Exact Points

You have exactly 100 points. Prizes cost 15, 22, 28, 35 and 40 points.

6. Find prizes that use all 100 points. Show your adding.

Answers vary, e.g. 15 + 22 + 28 + 35 = 100.

7. Ben says 47 + 36 = 713. Explain his mistake and find the correct sum.

He wrote 13 ones in the ones place. 47 + 36 = 83.

Extension

The store has a sale: every prize costs 10 points less. What does the basket cost now?

57 points