NO PHOTO NEEDED FOR THIS PAGE

Violet: this week's math

Week 2. About 24 minutes in total, best split into three sittings of about 8 minutes. Pencil, no calculator, show your work in the boxes. It's fine to leave a problem blank if it's too hard: a blank tells us what to practice next. Checking each section with the answer key and writing the score is recommended: it's a second check on how we read the photos, and when your count matches ours, the pages go in without waiting for you. When it's all done, photograph each page with problems on it, flat in good light, and upload the photos on your family's page.

- This week: 2-digit minus 2-digit, written, with regrouping (about 6 min)
- Quick check: Two-step add and subtract word problems (about 4 min)
- Confirming: 4 skills (about 5 min)
- Review: 4 skills from earlier weeks (about 7 min)
- Two-minute facts: Sums within 20 from memory (about 2 min)

Why this packet

New this week

What we're teaching right now.

- 2-digit minus 2-digit, written, with regrouping, for another sitting. Violet did this once already; one more good day on it and we'll call it learned.

Quick checks

Things we think they already know but haven't seen them do on paper.

- Two-step add and subtract word problems. You asked us to look at this one: five problems, four right and it's marked known.
- 4 skills in addition and subtraction, and place value. Violet already passed harder skills built on these, so two problems each is enough to be sure.

Review

Skills learned earlier, coming back so they stick.

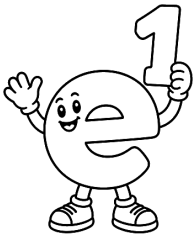
- 4 skills in addition and subtraction, and word problems. A skill comes back a few days after it is learned, then after a week, two weeks and a month.

Timed facts

Two minutes for speed. Nothing new here.

- Sums within 20 from memory. This is the set Violet is working on until it's quick.

For you: how to teach each new skill, and help with the quick checks and review, is on the next page. No photo needed for that page or this one.



For the grown-up.

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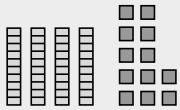
How to teach and help this week

Read this before the first sitting.

This week: 2-digit minus 2-digit, written, with regrouping

Not enough ones? Trade one ten for ten ones.

Worked example: 52 - 27: can't take 7 from 2. Trade: 4 tens and 12 ones. 12 - 7 is 5, 4 - 2 is 2. Answer 25.



How to help: Start in the ones and ask: can we take 7 away from 2? If not, trade: cross out the 5 tens and write 4, then write the 2 ones as 12. An answer of 35 means they took 2 from 7 instead, or traded but left the tens at 5; have them show you the crossed-out digit, then check by adding 25 + 27 = 52.

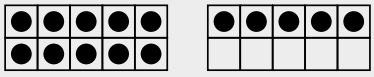
Read the key phrase out loud, do the worked example together on scratch paper, then let them do the page alone. Don't correct mid-page. Check it together at the end using the answer key.

Quick checks and review: if one gives trouble

Subtract within 20 with strategies

Subtract back to ten, then the rest. 14 - 6: 14 - 4 is 10, then take away 2 more to get 8.

Worked example: 15 - 7: 7 is 5 and 2. 15 - 5 is 10, then 10 - 2 is 8. Or think addition: 7 + 8 = 15, so 15 - 7 = 8.



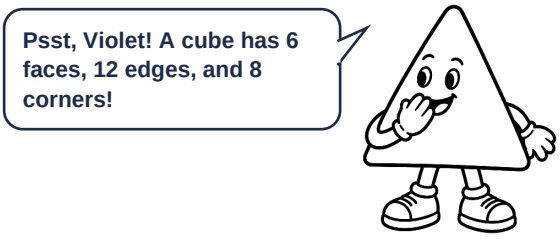
How to help: Have your child break the number being taken away into two parts so the first take-away lands on 10: 7 is 5 and 2. Fifteen is a full ten frame and 5 more, so take away the 5 to leave the full frame, 10, then take 2 out of the frame to leave 8. Counting up works too: start at 7 and count on fingers to 15, which takes 8. If they write 22, they added; point to the minus sign and ask whether the answer should be more or less than 15.

3-digit addition, regroup ones and tens

Ten ones make a ten. Ten tens make a hundred. Carry it to the next column.

Worked example: 368 + 275: 8 + 5 is 13, write 3, carry 1. 1 + 6 + 7 is 14, write 4, carry 1. 1 + 3 + 2 is 6. Answer 643.

How to help: It's the same carrying as with 2-digit numbers, one more column over: ten tens make one hundred, so that 1 goes above the hundreds. If the hundreds column makes 10 or more, they write the whole number, like 12, at the front of the answer. Watch for 13 written under the ones instead of carrying, and for a carried 1 that never gets added.



For the grown-up.

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Numerals, number names, and expanded form to 1,000

Each digit shows what it is worth. 343 is 300 + 40 + 3.

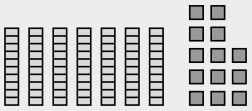
Worked example: 718 = 700 + 10 + 8. Going back the other way: 500 + 7 = 507, with a 0 in the tens place.

How to help: Have your child point to each digit and say its place: 7 hundreds, 1 ten, 8 ones. Then write each part as its full number: 700, 10, 8. When a place is missing, like 500 + 7, ask: how many tens? None, so write a 0 there; kids often write 57 or 5007.

Add within 100 with place-value strategies

Add the tens, add the ones, put them together. 34 + 25: 30 + 20 is 50, 4 + 5 is 9, so 59.

Worked example: 47 + 36: 40 + 30 is 70, 7 + 6 is 13, and 70 + 13 is 83.



How to help: Have them write the tens and the ones on separate lines in the work box: 40 + 30 = 70, then 7 + 6 = 13. When the ones make 10 or more, ask: 'How many tens are hiding in 13?' One ten, so 70 + 13 is 8 tens and 3 ones, 83. An answer of 713 means they wrote 7 and 13 side by side, and 73 means the extra ten from the ones got lost.

Add up to four 2-digit numbers

Add down the ones. Every ten you make moves to the tens column.

Worked example: 38 + 45 + 22 + 19: ones 8 + 2 is 10, 5 + 9 is 14, so 24. Write 4, carry 2. Tens 2 + 3 + 4 + 2 + 1 is 12. Answer 124.

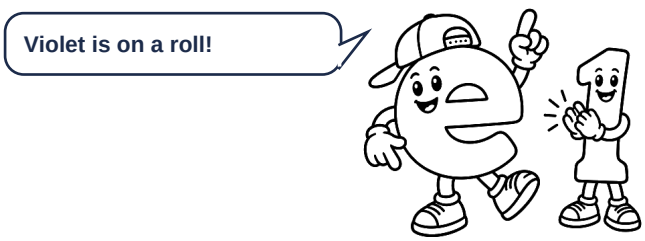
How to help: Have them look for two ones digits that make 10 first, like 8 and 2, then add the rest. Point out that the carry can be 2 or 3 now, not only 1: 24 ones is 2 tens and 4 ones. Check that they add the carried tens into the tens column and keep every digit in its own column.

Input-output tables with addition and subtraction

The rule does the same thing to every number. Check it on each pair.

Worked example: Rule: add 5. 8 becomes 13. Find the rule: 12 becomes 9, 20 becomes 17, 7 becomes 4. Each one went down 3, so the rule is subtract 3.

How to help: Ask first: did the number get bigger or smaller? Bigger means add, smaller means subtract. Then count up from the smaller number to the bigger one to find how much, test that on every pair, and write the rule as a word and a number, like 'subtract 3'.



For the grown-up.

NO PHOTO NEEDED FOR THIS PAGE

Two-step add and subtract word problems

Two things happen. Do them one at a time, and write the middle number down.

Worked example: Had 39, gave 24, then gave 12. First 39 - 24 = 15. Then 15 - 12 = 3.

How to help: Read the problem together. Ask: what happened first? What happened next? Have them write the answer to the first part in the box before doing the second part. The middle number is where these go wrong.

Count, read, and write to 120

After 100, keep counting the same way: 101, 102, 103, all the way to 120.

Worked example: 116, 117, ___, 119, ___: say 116, 117, 118, 119, 120. Write 118 and 120.

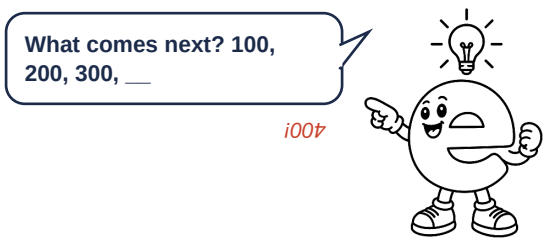
How to help: Say the numbers out loud together, pointing at each one. The tricky spots come after a 9: after 109 comes 110, and after 119 comes 120. Some kids write 1001 for 101, so show them that one hundred one is written with three digits: 1, 0, 1.

3-digit addition, no regrouping

Add ones to ones, tens to tens, and hundreds to hundreds.

Worked example: 352 + 416: ones 2 + 6 is 8, tens 5 + 1 is 6, hundreds 3 + 4 is 7. Answer 768.

How to help: Have them start in the ones column every time, even though nothing carries on this page; the next skill needs that habit. Ask what each digit is worth as they go: the 5 in 352 is 5 tens, or 50. When they finish, have them read the answer aloud, 'seven hundred sixty-eight,' to be sure it makes sense.



This week: 2-digit minus 2-digit, written, with regrouping

Remember: Not enough ones? Trade one ten for ten ones.

1.
$$\begin{array}{r} 75 \\ -\ 68 \\ \hline \end{array}$$

2.
$$\begin{array}{r} 35 \\ -\ 28 \\ \hline \end{array}$$

3.
$$\begin{array}{r} 50 \\ -\ 27 \\ \hline \end{array}$$

4.
$$\begin{array}{r} 80 \\ -\ 35 \\ \hline \end{array}$$

5.
$$\begin{array}{r} 93 \\ -\ 86 \\ \hline \end{array}$$

6.
$$\begin{array}{r} 90 \\ -\ 87 \\ \hline \end{array}$$

7.
$$\begin{array}{r} 94 \\ -\ 56 \\ \hline \end{array}$$

8.
$$\begin{array}{r} 41 \\ -\ 12 \\ \hline \end{array}$$

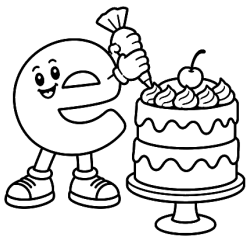
Grown-up (recommended): check with the key and write how many were right: _____ / 8
Grown-up (optional): ☐ **Needs more practice** (even if the answers are right, we'll keep working on it)

Quick check: Two-step add and subtract word problems

Five quick ones to confirm a skill.

1. At the soccer field, Violet and Maya are ready to play. Violet has 2 soccer balls, and Maya has 6. They need 20 soccer balls, so how many more do they need?

_____



2. In Grandma Rose's kitchen, Violet and Grandma Rose bake cookies. Violet had 66 baking cups and used 26 for cookies and 21 for cupcakes. How many baking cups are left?

_____

3. Across the living room, Violet practices a dance while Biscuit watches. Violet had 21 dance ribbons, and Biscuit grabbed 13 of them and then 3 more. How many dance ribbons are left?

_____

4. Violet had 19 soccer balls. Violet gave 5 to Ruby and 13 to Ava. How many are left?

_____

5. On the sideline at the soccer game, Violet and Leo share a snack. Violet had 88 juice boxes in the team cooler and got 10 more, then gave 38 to Leo. How many juice boxes does Violet have now?

_____

Grown-up (recommended): check with the key and write how many were right: _____ / 5
Grown-up (optional): ☐ **Needs more practice** (even if the answers are right, we'll keep working on it)



Confirming: 4 skills

Two quick ones for each skill, to confirm it.

Subtract within 20 with strategies

1. 13 - 9 = _____

2. 13 - 7 = _____

Count, read, and write to 120

3. Fill in the missing numbers: 42, 43, _____, _____, 46

4. Fill in the missing numbers: 97, 98, _____, _____, 101

3-digit addition, regroup ones and tens

5.

$$\begin{array}{r} 598 \\ +\ 418 \\ \hline \end{array}$$

6.

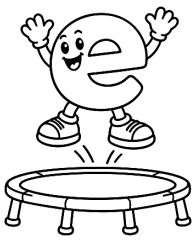
$$\begin{array}{r} 777 \\ +\ 327 \\ \hline \end{array}$$

Numerals, number names, and expanded form to 1,000

7. Write 825 in expanded form: _____

8. 700 + 20 + 3 = _____

Grown-up (recommended): check with the key and write how many were right: _____ / 8



Review: 4 skills from earlier weeks

Add within 100 with place-value strategies Grown-up: ☐ Needs more practice

1. 38 + 24 = _____

2. 34 + 27 = _____

3. 15 + 24 = _____

3-digit addition, no regrouping Grown-up: ☐ Needs more practice

4.

$$\begin{array}{r} 615 \\ +\ 233 \\ \hline \end{array}$$

5.

$$\begin{array}{r} 368 \\ +\ 310 \\ \hline \end{array}$$

6.

$$\begin{array}{r} 645 \\ +\ 142 \\ \hline \end{array}$$

Add up to four 2-digit numbers Grown-up: ☐ Needs more practice

7.

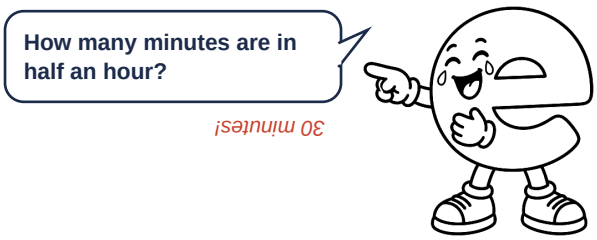
$$\begin{array}{r} 56 \\ 82 \\ +\ 27 \\ \hline \end{array}$$

8.

$$\begin{array}{r} 45 \\ 25 \\ 79 \\ +\ 47 \\ \hline \end{array}$$

9.

$$\begin{array}{r} 14 \\ 64 \\ +\ 63 \\ \hline \end{array}$$



Input-output tables with addition and subtraction Grown-up: ☐ Needs more practice

10. Rule: add 6. 11 becomes 17. 13 becomes 19. 2 becomes 8. 14 becomes _____

11. Find the rule. 21 becomes 23. 3 becomes 5. 6 becomes 8. 5 becomes 7. Rule: _____

12. Find the rule. 5 becomes 3. 21 becomes 19. 39 becomes 37. 36 becomes 34. Rule: _____

Grown-up (recommended): check with the key and write how many were right: _____ / 12



Two-minute facts: Sums within 20 from memory

Set a timer for 2 minutes. Answer as many as you can, going down each column. Stop when it rings.
Correct: _____ / 40 Time used if finished early: _____
Fact pages climb one set at a time. 30 right in two minutes moves you up to the next set.
Your best so far: 27 right. The starred box is the one that beats it.

3 + 7 = _____	0 + 6 = _____	7 + 3 = _____	10 + 7 = _____
11 + 9 = _____	7 + 0 = _____	2 + 4 = _____	3 + 6 = _____
13 + 4 = _____	12 + 7 = _____	3 + 1 = _____	17 + 3 = _____
9 + 3 = _____	18 + 1 = _____	2 + 13 = _____	1 + 3 = _____
7 + 6 = _____	10 + 9 = _____	1 + 2 = _____	1 + 16 = _____
9 + 7 = _____	18 + 2 = _____	10 + 8 = _____	5 + 10 = _____
9 + 2 = _____	16 + 4 = _____	11 + 5 = _____	9 + 8 = _____
6 + 6 = _____	2 + 2 = _____	★ 4 + 4 = _____	1 + 1 = _____
2 + 9 = _____	7 + 8 = _____	0 + 2 = _____	5 + 1 = _____
6 + 8 = _____	5 + 13 = _____	1 + 8 = _____	0 + 12 = _____

On your mark... go!

