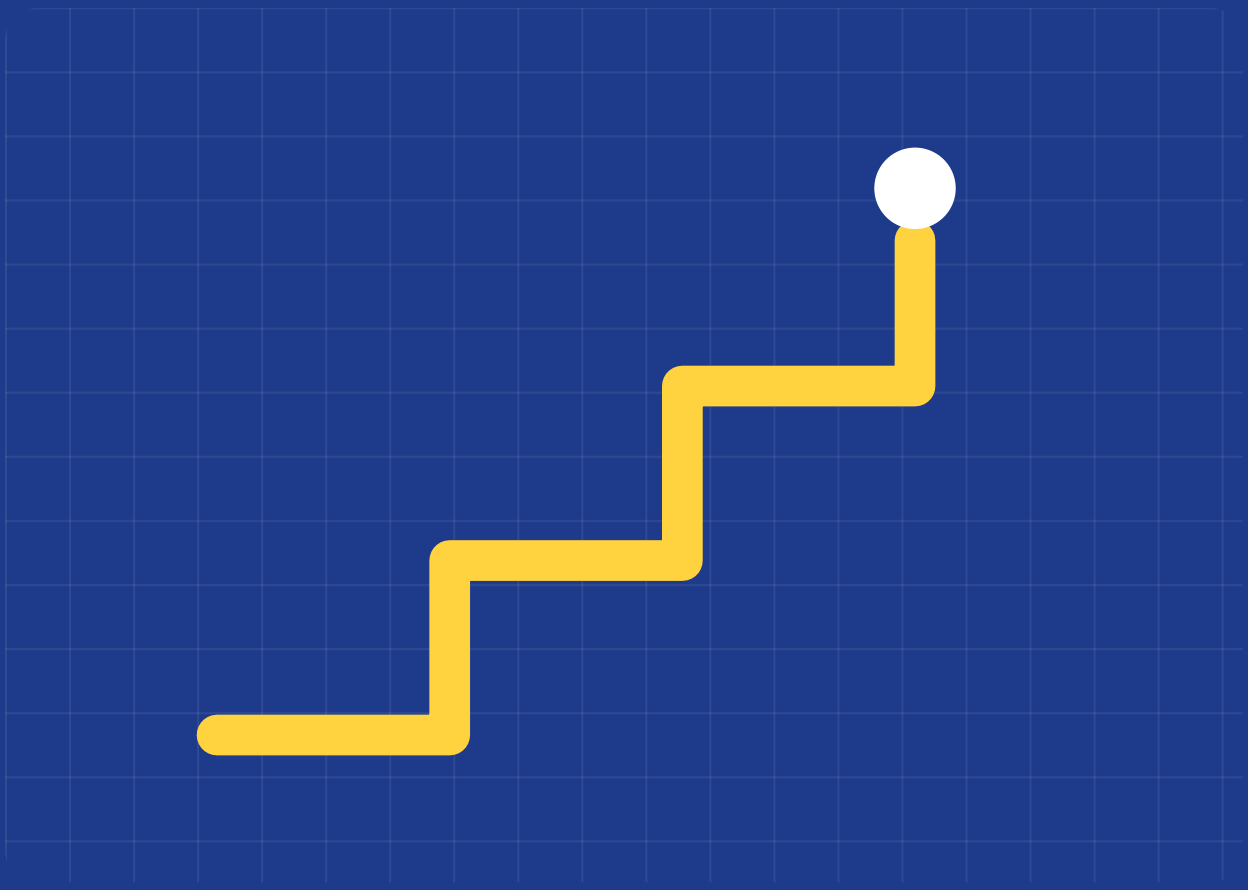
UpOnly Learning



GRADE 2

FREE SAMPLE WORKBOOK

Math Grade 2

One step at a time. · Ages 7–8 · Free sample: 1 of 9 topics

UO-MATH-2

OUR STORY

One step at a time

I'm Dr. Evan J. Hasson. I've run a specific chiropractic practice for over twelve years, and I'm a dad of three. My work is about alignment: get the structure right, and everything else works better.

At home, nothing was aligned. I was spending thousands a month on tutors, extracurriculars and programs, and when I asked about enrolling a second or third child the answer was always the same: that'll be double, that'll be triple. The charter school had a waiting list. The good public school had a waiting list. The private schools had the kind of list where it helps to know someone, or to give generously first.

And underneath all of it, the same quiet threat: if you don't pay for this, your child will fall behind. Not sold with evidence. Sold with fear.

So I did my own research, and here is what I found: none of it is secret. The standards are published. The order a child should learn in is written down and freely available. It is just scattered. Nobody had done the work of pulling it together, putting it in order and handing it over. So I did.

When every step has its place, confusion has nowhere to hide.

I built this for my own kids. I'm giving it to yours.

Dr. Evan J. Hasson, DC
Founder and dad of three

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No guaranteed results, and mistakes happen. Every student learns differently. We write and review every question and answer key carefully, and we still get things wrong — an answer key can be wrong, and a question can be worded badly or have two defensible answers. Check the answer key before you hand it over, and trust your own judgment over ours. Found a problem? **Photograph the page and email it to support@uponlylearning.com** — the picture tells us more than a description, and we fix it for every family.

Safety. Some activities use household items such as scissors, coins or food. An adult should supervise and skip anything unsafe for the student.

Not professional advice. This workbook does not replace an evaluation by a qualified educator or specialist. The founder is a Doctor of Chiropractic; UpOnly Learning does not provide medical or health advice.

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INTRODUCTION

How to use this workbook

Each topic follows the same steps, so your student always knows what comes next.

① **Quick Check.** 10 questions before you teach. Read them aloud for younger students. A high score means you can move faster.

② **Learn It.** Key words, step-by-step teaching with lines you can read aloud, worked examples and the mistakes to watch for.

③ **We Do It Together.** 10 questions you do side by side. The answer and the "why" are printed right after each question, so you can talk it through.

④ **You Try.** 10 questions your student does alone.

Answers with short explanations for every question are in the **Answer Key** at the end of each topic, so students can work without peeking. Go over each wrong answer together using the explanation.

This workbook is printed in full color. To save ink, choose "Black and white" or "Grayscale" in your printer settings; every page still works in black and white.

Want online checks that score themselves and track each student's progress? Visit uponlylearning.com.

GRADE 2

CONTENTS · UO-MATH-2

Math: Grade 2

Free Sample Workbook · Ages 7–8 · 1 of 9 topics, with a Quick Check, a lesson, We Do It Together, You Try and an answer key

Our story

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How to use this workbook

Topic 1 · Fact fluency and arrays

Add and subtract within 20; odd and even; arrays 2.OA

Quick Check · Learn It · We Do It Together · You Try · Answer Key

TOPIC 1 · 2.OA

↑ CONTENTS

Fact fluency and arrays

The student will add and subtract within 20 fluently using mental strategies, solve one- and two-step word problems within 100, tell whether a group of up to 20 objects is odd or even, and write an addition equation for a rectangular array of up to 5 rows and 5 columns.

① Quick Check

> *Do this before the lesson. It shows what your student already knows. Score: ____ / 10*

1. What is 8 + 3?

A 11 **B** 5 **C** 10 **D** 12

2. What is 15 - 6?

A 9 **B** 21 **C** 11 **D** 8

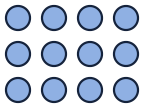
3. What is 18 - 9?

A 10 **B** 8 **C** 9 **D** 27

4. What is 6 + 8?

A 13 **B** 14 **C** 15 **D** 2

5. Each dot is a button. Write an addition equation for this array.



6. Lena had 13 stickers. She gave away 8. How many stickers does she have left?

A 4 **B** 21 **C** 6 **D** 5

7. Is 20 odd or even? Explain how you know.

8. Ivy read 18 pages on Monday. She read 9 fewer pages on Tuesday. How many pages did she read on Tuesday?

A 8 **B** 9 **C** 27 **D** 10

9. Kim and Raj have 30 cards together. Kim has 13. How many more cards does Raj have than Kim?

A 43 **B** 3 **C** 4 **D** 17

10. Add two odd numbers, like 7 + 9. Is the answer odd or even?

A Odd **B** Sometimes odd **C** Even **D** Neither

② Learn It

Key words

- **even**: a number of things that can be split into pairs, or two equal groups, with none left over
- **odd**: a number of things where one is left over when you make pairs
- **array**: objects arranged in equal rows and equal columns
- **row**: a line of objects going across
- **column**: a line of objects going up and down

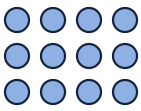
Warm-up

1. Quick-fire facts: 8 + 7, 9 + 6, 13 - 5, 15 - 8, 6 + 6, 17 - 9. Encourage the student to say the strategy for one or two.
2. Ask: what is a double you know? Let the student list doubles up to 10 + 10.

> *Let's see how quick your brain is today. What is 8 plus 7? How did you get it?*

Teach

1. Strategies within 20: review making ten (8 + 5 = 8 + 2 + 3 = 13), doubles and near doubles (7 + 8 = 7 + 7 + 1 = 15), and thinking addition to subtract (14 - 6: 6 + 8 = 14, so 8).
2. Two-step word problems: 'There were 12 birds. 5 flew away and then 8 more came. How many now?' Do 12 - 5 = 7, then 7 + 8 = 15.
3. Odd and even: put out 8 buttons. Pair them up. No button is left over, so 8 is even. Put out 9 buttons: one is left alone, so 9 is odd. Show that an even number is a double: 8 = 4 + 4.
4. Notice the pattern: even numbers end in 0, 2, 4, 6 or 8. Odd numbers end in 1, 3, 5, 7 or 9.
5. Arrays: put buttons in a muffin tin in 3 rows of 4. Show that we can add the rows: 4 + 4 + 4 = 12. Or add the columns: 3 + 3 + 3 + 3 = 12. Same total.



> *An even number can be shared into pairs with none left over. An array has equal rows, so we can add the same number again and again.*

Guided practice

1. Ask the student to solve 9 + 7 and explain the strategy.
2. Give the student 11 buttons. Ask them to decide if 11 is odd or even by making pairs.

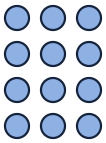
3. Ask the student to write 14 as a double (7 + 7) to show it is even.
4. Have the student build an array with 2 rows of 5. Write an addition equation for it: 5 + 5 = 10.
5. Read a two-step problem: 'Sara had 20 stickers. She used 6 and then got 4 more. How many does she have?' Solve together: 20 - 6 = 14, 14 + 4 = 18.

> *Show me with the buttons, then tell me the number sentence that matches.*

Worked examples

Is 15 odd or even?
Odd. Make pairs from 15 objects: you get 7 pairs and 1 left over. Also, 15 ends in 5, which is an odd digit.

Write an addition equation for an array with 4 rows of 3 buttons.



3 + 3 + 3 + 3 = 12. Each row has 3, and there are 4 rows, so add 3 four times.

Watch for these mistakes

Mistake: A number is even if it is big, like 17, or odd if it is small.
Fix: Odd and even are about pairing, not size. Build 17 with objects and make pairs; one is left over, so 17 is odd. 4 is small but even.

Mistake: In a two-step problem, the student does only the first step and stops.
Fix: Have the student retell the story in order and underline each thing that happens. Each action gets its own step.

③ We Do It Together: 10 questions

> *Do these side by side. Read each question together, let your student answer, then read the answer and the "why" right below it and talk it through.*

1. What is 11 - 3?

A 14 **B** 9 **C** 8 **D** 7

> **Answer: C** 8
> **Why:** Take 1 to get to 10, then 2 more to get to 8.

2. Is 11 odd or even?

A Even **B** Odd **C** Both **D** Neither

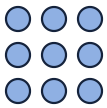
> **Answer: B** Odd
> **Why:** 11 makes 5 pairs with 1 left over, so 11 is odd.

3. Which number is odd?

A 6 **B** 15 **C** 12 **D** 20

> **Answer: B** 15
> **Why:** 15 ends in 5. Numbers ending in 1, 3, 5, 7 or 9 are odd.

4. How many dots are in this array?



A 6 **B** 12 **C** 9 **D** 33

> **Answer: C** 9
> **Why:** 3 + 3 + 3 = 9.

5. Rosa has 16 beads. Can she split them into 2 equal groups with none left over?

A Yes, 8 and 8 **B** No, 16 is too big **C** No, 16 is odd **D** Yes, 7 and 9

> **Answer: A** Yes, 8 and 8
> **Why:** 8 + 8 = 16. Two equal groups with none left over means 16 is even.

6. What number makes this true? 9 + __ = 17

A 7 **B** 8 **C** 9 **D** 26

> **Answer: B** 8
> **Why:** Count up from 9 to 17: 1 to make 10, then 7 more. 1 + 7 = 8.

7. A bakery made 34 rolls in the morning and 25 in the afternoon. How many rolls did it make?

A 49 **B** 59 **C** 69 **D** 9

> **Answer: B** 59
> **Why:** 34 + 25: 3 tens + 2 tens = 5 tens, 4 ones + 5 ones = 9 ones. 59.

8. Which addition fact helps you solve 15 - 8?

A 5 + 8 = 13 **B** 7 + 8 = 15 **C** 15 + 8 = 23 **D** 8 + 8 = 16

> **Answer: B** 7 + 8 = 15
> **Why:** Subtraction is the opposite of addition. 7 + 8 = 15, so 15 - 8 = 7.

9. There are 18 chairs. They are put in rows of 3. Which equation shows this?

A 18 - 3 = 15 **B** 3 + 3 + 3 + 3 + 3 + 3 = 18 **C** 3 + 18 = 21 **D** 6 + 6 + 6 + 6 = 24

> **Answer: B** 3 + 3 + 3 + 3 + 3 + 3 = 18
> **Why:** Six rows of 3 add up to 18.

10. Theo has 25 marbles. Ada has 18 more than Theo. How many marbles does Ada have?

A 43 **B** 53 **C** 7 **D** 33

> **Answer: A** 43
> **Why:** More than means add: 25 + 18 = 43.

④ You Try: 10 questions

Now your student works alone. Check answers in the Answer Key at the end of this topic. Score: ____ / 10

1. What is 5 + 9?

A 4 **B** 13 **C** 14 **D** 15

2. Write 12 as the sum of two equal numbers.

A 4 + 8 **B** 6 + 6 **C** 10 + 2 **D** 5 + 7

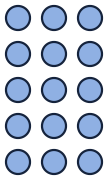
3. Ben has 9 grapes. He gets 4 more. How many grapes does he have?

A 12 **B** 14 **C** 13 **D** 5

4. Max scored 7 points. Then he scored 6 more. Then 5 more. How many points in all?

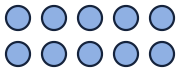
A 19 **B** 18 **C** 17 **D** 13

5. Each dot is a plant in a garden. How many plants are there?



A 12 **B** 8 **C** 18 **D** 15

6. The dots show eggs in a carton. Which equation shows the total?



A 2 + 2 = 4 **B** 2 + 5 = 7 **C** 5 + 5 = 10 **D** 5 + 2 = 7

7. There are 45 birds on a wire. 23 fly away. How many birds are left?

A 28 **B** 68 **C** 12 **D** 22

8. A shelf had 52 books. 17 were taken out, then 9 were put back. How many books are on the shelf now?

A 78 **B** 26 **C** 35 **D** 44

9. Write a word problem for 17 - 8, then solve it.

10. Sofia has 19 stamps. She wants 2 equal groups. How many stamps are left over?

A 9 **B** 0 **C** 1 **D** 2

Fact fluency and arrays: Answers and explanations

① Quick Check

1. What is 8 + 3?
   A 11
   Count on from 8: 9, 10, 11.

2. What is 15 - 6?
   A 9
   Take 5 to get to 10, then 1 more to get to 9.

3. What is 18 - 9?
   C 9
   9 + 9 = 18, so 18 - 9 = 9.

4. What is 6 + 8?
   B 14
   Doubles plus 2: 6 + 6 = 12, and 2 more is 14.

5. Each dot is a button. Write an addition equation for this array.
   4 + 4 + 4 = 12 (or 3 + 3 + 3 + 3 = 12 if counting by columns).
   Add one 4 for each row: 4 + 4 + 4 = 12 buttons.

6. Lena had 13 stickers. She gave away 8. How many stickers does she have left?
   D 5
   13 - 8 = 5. Think 8 + 5 = 13.

7. Is 20 odd or even? Explain how you know.
   Even. Example reasons: 10 + 10 = 20, or 20 makes 10 pairs with none left over, or it ends in 0.
   20 can be split into two equal groups of 10, so it is even.

8. Ivy read 18 pages on Monday. She read 9 fewer pages on Tuesday. How many pages did she read on Tuesday?
   B 9
   Fewer means subtract: 18 - 9 = 9.

9. Kim and Raj have 30 cards together. Kim has 13. How many more cards does Raj have than Kim?
   C 4
   Raj has 30 - 13 = 17 cards. 17 - 13 = 4 more than Kim.

10. Add two odd numbers, like 7 + 9. Is the answer odd or even?
    C Even
    Each odd number has 1 left over. The two leftovers make a pair, so the sum is even. 7 + 9 = 16.

④ You Try

1. What is 5 + 9?

   C 14

   Make a ten: 9 + 1 = 10, and 4 more from the 5 makes 14.

2. Write 12 as the sum of two equal numbers.

   B 6 + 6

   6 + 6 = 12, and both numbers are the same. That shows 12 is even.

3. Ben has 9 grapes. He gets 4 more. How many grapes does he have?

   C 13

   9 + 4 = 13. Make a ten with 9 + 1, then add 3 more.

4. Max scored 7 points. Then he scored 6 more. Then 5 more. How many points in all?

   B 18

   7 + 6 = 13, and 13 + 5 = 18.

5. Each dot is a plant in a garden. How many plants are there?

   D 15

   3 + 3 + 3 + 3 + 3 = 15.

6. The dots show eggs in a carton. Which equation shows the total?

   C 5 + 5 = 10

   There are 2 rows of 5, so add 5 two times: 5 + 5 = 10.

7. There are 45 birds on a wire. 23 fly away. How many birds are left?

   D 22

   45 - 23: 4 tens minus 2 tens is 2 tens, and 5 ones minus 3 ones is 2 ones. 22.

8. A shelf had 52 books. 17 were taken out, then 9 were put back. How many books are on the shelf now?

   D 44

   52 - 17 = 35, then 35 + 9 = 44.

9. Write a word problem for 17 - 8, then solve it.

   Any story where 8 is taken away from 17 or compared to 17, with the answer 9. Example: 'I had 17 grapes and ate 8. How many are left? 9.'

   17 - 8 = 9 because 8 + 9 = 17.

10. Sofia has 19 stamps. She wants 2 equal groups. How many stamps are left over?

    C 1

    9 + 9 = 18, so 1 stamp is left over. That is why 19 is odd.

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3. Adding and subtracting within 1,000 2.NBT.B
4. Measuring in standard units 2.MD.A
5. Time and money 2.MD.C
6. Picture and bar graphs 2.MD.D
7. Line plots of measurements 2.MD.D.9
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9. Length problems and number lines 2.MD.B

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One step at a time.

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