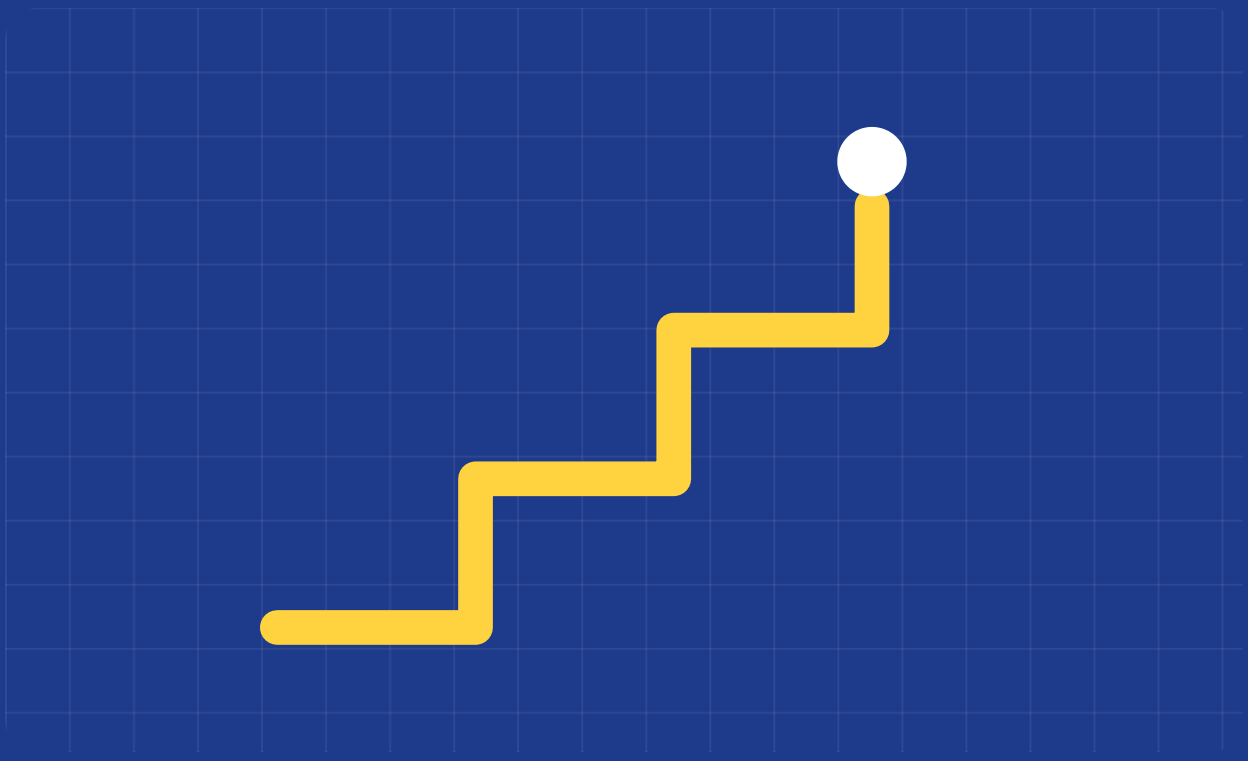
UpOnly Learning



PRIMARY 4

FREE SAMPLE WORKBOOK

Math (Singapore MOE syllabus) Primary 4

One step at a time. · Ages 9–10 · Free sample: 1 of 9 topics

UO-SGMATH-P4

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.

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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.

PRIMARY 4

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Math (Singapore MOE syllabus): Primary 4

Free Sample Workbook · Ages 9–10 · 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 · Numbers to 100,000

Rounding and estimation P4 N1

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

Numbers to 100,000

The student will read and write numbers up to 100,000, round them to the nearest 10, 100 or 1000, and use rounding to estimate answers and check whether a calculation is reasonable.

① Quick Check

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

1. Which number is the greatest?

   A 45,099 **B** 44,999 **C** 45,109 **D** 45,190

2. What is 100 less than 30,050?

   A 29,050 **B** 30,040 **C** 29,950 **D** 30,950

3. Write 'eighty thousand, three hundred' in numerals.

   A 80,300 **B** 83,000 **C** 8300 **D** 80,030

4. Round 61,238 to the nearest 10.

   A 61,200 **B** 61,300 **C** 61,230 **D** 61,240

5. A town has 58,472 people. What is this number rounded to the nearest 1000?

   A 59,000 **B** 58,000 **C** 58,500 **D** 60,000

6. Which number gives the same answer when rounded to the nearest 10 and to the nearest 100?

   A 2410 **B** 2350 **C** 2385 **D** 2400

7. Estimate 7850 + 1230 by rounding each number to the nearest 100.

   A 9000 **B** 9100 **C** 9200 **D** 9080

8. Estimate 3812 + 2460 + 1095 by rounding each number to the nearest 1000.

   A 7400 **B** 6000 **C** 8000 **D** 7000

9. Which number is 12,000 when rounded to the nearest 1000, but 11,900 when rounded to the nearest 100?

   A 11,951 **B** 12,040 **C** 11,849 **D** 11,948

10. Explain why 26,950 rounded to the nearest 100 is 27,000. You may use the number line.



② Learn It

Key words

- **ten thousands**: the fifth place from the right; 10,000 is ten thousand
- **round**: to change a number to a nearby simpler number, such as the nearest 10, 100 or 1000
- **nearest**: closest; the one with the shortest distance on a number line
- **estimate**: a sensible guess using rounded numbers, close to the real answer
- **approximately**: about, nearly; not exact but close

Warm-up

1. Write 47,386 and ask the student to read it aloud (forty-seven thousand, three hundred and eighty-six) and give the value of each digit.

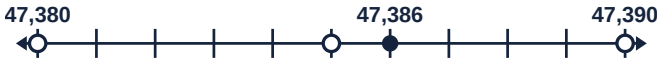
Ten thousands	Thousands	Hundreds	Tens	Ones
4	7	3	8	6

2. Ask: is 47 closer to 40 or to 50? How do you know?

> *Sometimes we do not need an exact number. If someone asks how many people are at a stadium, 'about 50,000' is a perfect answer. Today we learn how to round.*

Teach

1. Place value: draw a chart with Ten thousands, Thousands, Hundreds, Tens, Ones. Write 47,386: 4 ten thousands = 40,000, 7 thousands = 7000, 3 hundreds, 8 tens, 6 ones.
2. Pictorial rounding: draw a number line from 47,380 to 47,390 with the halfway mark 47,385. Place 47,386. It is past the halfway mark, so 47,386 rounded to the nearest 10 is 47,390.



3. Nearest 100: draw a line from 47,300 to 47,400 with halfway 47,350. 47,386 is past halfway, so it rounds to 47,400.
4. Nearest 1000: line from 47,000 to 48,000 with halfway 47,500. 47,386 is before halfway, so it rounds to 47,000.
5. Abstract rule: look at the digit just to the right of the place you are rounding to. If it is 5 or more, round up. If it is 4 or less, round down. Everything to the right becomes 0.
6. Halfway rule: a number exactly halfway, like 65,950 to the nearest 100, rounds up to 66,000.

7. Watch for a chain: 29,501 to the nearest 1000. The hundreds digit is 5, so round up: 29 thousands becomes 30 thousands, giving 30,000.
8. Estimation: to estimate 8345 + 2689, round each to the nearest 1000: 8000 + 3000 = 11,000. The exact answer 11,034 is close, so it is reasonable.
9. Estimating products and quotients: 6890 × 4 is about 7000 × 4 = 28,000. 5874 ÷ 3 is about 6000 ÷ 3 = 2000.

> *Find the place you are rounding to, then peek at the digit next door on the right. Five or more, go up. Four or less, stay the same.*

Guided practice

1. Round 23,604 to the nearest 10, 100 and 1000 together, drawing a number line for each. (23,600; 23,600; 24,000)
2. Ask: what is the smallest whole number that rounds to 5000 when rounded to the nearest 100? Use a number line from 4900 to 5000. (4950)



3. If you have a receipt, round each price to the nearest dollar and estimate the total, then compare with the real total.

> *Draw your number line and mark the halfway point. Then decide which end your number is closer to.*

Worked examples

Round 65,950 to the nearest 100 and to the nearest 1000.



Nearest 100: the tens digit is 5, so round up from 65,900 to 66,000. Nearest 1000: the hundreds digit is 9, so round up to 66,000.

Estimate 4986 - 1975 by rounding to the nearest 1000. Is the exact answer 3011 reasonable?

Number	Nearest 1000
4986	5000
1975	2000

5000 - 2000 = 3000. The exact answer 3011 is very close to 3000, so it is reasonable.

Watch for these mistakes

Mistake: Rounding 47,386 to the nearest 100 as 47,390 or 47,486, by looking at the wrong digit or changing digits on the left.
Fix: Underline the hundreds digit (3) and circle the digit to its right (8). Since 8 is 5 or more, the 3 becomes 4 and all digits to the right become 0: 47,400. Digits on the left stay the same.

Mistake: Thinking an estimate is wrong because it does not match the exact answer.
Fix: Explain that an estimate is meant to be close, not exact. Its job is to check that an answer is sensible.

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. Round 3750 to the nearest 1000. Use the number line to help you.



A 3800 **B** 4000 **C** 3000 **D** 3700

Answer: B 4000
Why: The hundreds digit is 7, so 3 thousands rounds up to 4000.

2. Round 2347 to the nearest 10. Use the number line to help you.



A 2350 **B** 2300 **C** 2340 **D** 2400

Answer: A 2350
Why: The ones digit is 7, which is 5 or more, so the tens go up: 2347 becomes 2350.

3. Round 13,500 to the nearest 1000.

A 13,000 **B** 14,000 **C** 10,000 **D** 13,500

> **Answer: B** 14,000
> **Why:** The hundreds digit is 5, so we round up to 14,000.

4. Round 805 to the nearest 10. Use the number line to help you.



A 805 **B** 810 **C** 900 **D** 800

> **Answer: B** 810
> **Why:** The ones digit is 5, so we round up: 805 becomes 810.

5. A school collected 12,486 cans. What is this rounded to the nearest 100?

A 12,400 **B** 12,490 **C** 12,500 **D** 13,000

> **Answer: C** 12,500
> **Why:** The tens digit is 8, so 4 hundreds becomes 5 hundreds: 12,500.

6. Mrs. Tan has $8000. She wants to buy both items in the table. Round each price to the nearest $1000. Does she have enough money?

Item	Price
TV	$2980
Fridge	$3150

A No, about $8000 is needed **B** Yes, about $5000 is needed **C** No, about $9000 is needed **D** Yes, about $6000 is needed

> **Answer: D** Yes, about $6000 is needed
> **Why:** $3000 + $3000 = $6000, which is less than $8000, so she has enough.

7. Round 39,950 to the nearest 100.

A 30,000 **B** 39,900 **C** 40,000 **D** 39,000

> **Answer: C** 40,000
> **Why:** The tens digit is 5, so 399 hundreds goes up to 400 hundreds, which is 40,000.

8. Look at the place-value chart for 46,604. The first 6 is worth how many times as much as the second 6?

Ten thousands	Thousands	Hundreds	Tens	Ones
4	6	6	0	4

A 1000 **B** 100 **C** 2 **D** 10

> **Answer: D** 10
> **Why:** The first 6 means 6000 and the second 6 means 600. 6000 is 10 times 600.

9. Mei estimates 6 × 4875 as 6 × 5000 = 30,000. Which exact answer is reasonable?

A 2925 **B** 29,250 **C** 292,500 **D** 24,250

> **Answer: B** 29,250
> **Why:** 29,250 is close to 30,000. Check: 6 × 4875 = 29,250.

10. A number rounds to 8350 to the nearest 10, and to 8400 to the nearest 100. Which could it be?

A 8349 **B** 8355 **C** 8352 **D** 8346

> **Answer: C** 8352
> **Why:** 8352 rounds to 8350 (2 ones) and to 8400 (5 tens). To the nearest 100, 8346 and 8349 round to 8300. To the nearest 10, 8355 rounds to 8360.

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. Estimate 398 + 512 by rounding each number to the nearest 100.

A 800 **B** 910 **C** 1000 **D** 900

2. Look at the place-value chart for 38,415. What is the value of the digit 8?

Ten thousands	Thousands	Hundreds	Tens	Ones
3	8	4	1	5

A 8000 **B** 800 **C** 80 **D** 80,000

3. In 91,276, which digit is in the thousands place?

A 7 **B** 9 **C** 1 **D** 2

4. Round 15,049 to the nearest 100.

A 15,100 **B** 15,050 **C** 15,040 **D** 15,000

5. Write 'ninety thousand and nine' in numerals.

A 90,009 **B** 90,090 **C** 9009 **D** 90,900

6. Estimate 612 × 8 by rounding 612 to the nearest 100.

A 5600 **B** 4800 **C** 4896 **D** 4000

7. Which list is in order from smallest to greatest?

A 30,240; 30,024; 30,402 **B** 30,024; 30,402; 30,240 **C** 30,024; 30,240; 30,402

D 30,402; 30,240; 30,024

8. A cashier adds 3195 + 4870 and gets 7065. Round each number to the nearest 100 to check. What do you find?

A The answer is too big by about 1000 **B** The answer is too small by about 1000

C The answer is exactly right **D** The answer is reasonable

9. How many whole numbers round to 800 when rounded to the nearest 10? Use the number line to help you.



A 9 **B** 10 **C** 5 **D** 11

10. Use the digits 4, 0, 7, 2 and 9 once each to make the greatest 5-digit number. Round it to the nearest 1000.

A 97,400 **B** 97,000 **C** 90,000 **D** 98,000

Numbers to 100,000: Answers and explanations

① Quick Check

1. Which number is the greatest?
   D 45,190
   Compare from the left. 45,190 has the most hundreds among the numbers starting with 45 thousand.

2. What is 100 less than 30,050?
   C 29,950
   30,050 - 100 = 29,950. There are no hundreds, so we take 1 thousand and make it 10 hundreds first.

3. Write 'eighty thousand, three hundred' in numerals.
   A 80,300
   80 thousands and 3 hundreds, with 0 tens and 0 ones, is 80,300.

4. Round 61,238 to the nearest 10.
   D 61,240
   The ones digit is 8, so the 3 tens go up to 4 tens: 61,240.

5. A town has 58,472 people. What is this number rounded to the nearest 1000?
   B 58,000
   The hundreds digit is 4, which is less than 5, so it rounds down to 58,000.

6. Which number gives the same answer when rounded to the nearest 10 and to the nearest 100?
   D 2400
   2400 already ends in 00, so it stays 2400 both ways. 2350 becomes 2400 only for the nearest 100.

7. Estimate 7850 + 1230 by rounding each number to the nearest 100.
   B 9100
   7850 rounds to 7900 and 1230 rounds to 1200. 7900 + 1200 = 9100. (9080 is the exact answer, not the estimate.)

8. Estimate 3812 + 2460 + 1095 by rounding each number to the nearest 1000.
   D 7000
   4000 + 2000 + 1000 = 7000.

9. Which number is 12,000 when rounded to the nearest 1000, but 11,900 when rounded to the nearest 100?
   D 11,948
   11,948 has 4 tens, so it rounds to 11,900, and 9 hundreds, so it rounds to 12,000.

10. Explain why 26,950 rounded to the nearest 100 is 27,000. You may use the number line.
    The child says the tens digit is 5, so the 9 hundreds go up by 1. 10 hundreds make 1 more thousand, so 26 thousands becomes 27 thousands: 27,000.
    Rounding 9 hundreds up makes 10 hundreds, which is one more thousand, so the answer is 27,000.

④ You Try

1. Estimate 398 + 512 by rounding each number to the nearest 100.

   D 900

   398 rounds to 400 and 512 rounds to 500. 400 + 500 = 900.

2. Look at the place-value chart for 38,415. What is the value of the digit 8?

   A 8000

   The 8 is in the thousands place, so it stands for 8000.

3. In 91,276, which digit is in the thousands place?

   C 1

   Reading from the left: 9 ten thousands, 1 thousand, 2 hundreds. So the thousands digit is 1.

4. Round 15,049 to the nearest 100.

   D 15,000

   The tens digit is 4, which is less than 5, so round down to 15,000. Do not round the 9 first.

5. Write 'ninety thousand and nine' in numerals.

   A 90,009

   90 thousands, then 0 hundreds, 0 tens and 9 ones: 90,009.

6. Estimate 612 × 8 by rounding 612 to the nearest 100.

   B 4800

   612 rounds to 600, and 600 × 8 = 4800.

7. Which list is in order from smallest to greatest?

   C 30,024; 30,240; 30,402

   All start with 30 thousand. Compare hundreds: 0 hundreds, then 2 hundreds, then 4 hundreds.

8. A cashier adds 3195 + 4870 and gets 7065. Round each number to the nearest 100 to check. What do you find?

   B The answer is too small by about 1000

   3200 + 4900 = 8100, so the answer should be near 8100. 7065 is about 1000 too small. The exact sum is 8065.

9. How many whole numbers round to 800 when rounded to the nearest 10? Use the number line to help you.

   B 10

   The numbers 795, 796, 797, 798, 799, 800, 801, 802, 803 and 804 all round to 800. That is 10 numbers.

10. Use the digits 4, 0, 7, 2 and 9 once each to make the greatest 5-digit number. Round it to the nearest 1000.

    B 97,000

    The greatest number is 97,420. Its hundreds digit is 4, so it rounds down to 97,000.

THE FULL WORKBOOK

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3. Four operations P4 N3
4. Fractions P4 N4
5. Decimals P4 N5
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