

Multiplication

Division Fractions

Decimals © Probability © Graphs

Measurement © Classifying Shapes

Area

Volume

Coordinate Planes



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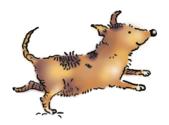
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ABOUT CATCH-UP MATH

The Catch-Up Math series enables children to start from scratch when they are struggling with grade-level math. Each book takes math back to the foundation and ensures that all basic concepts are consolidated before moving forward. Lots of revision and opportunities to practice and build confidence are provided before moving on to new topics.

Each new topic is introduced clearly with simple explanations, examples, and trial questions (with answers) before children move to the Practice section. To help students understand difficult topics, instructional videos are included throughout the book.

This book has 15 chapters that cover a variety of mathematical concepts. The chapters are:

Whole Number	S
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9 Probability

2 Addition

10 Data

3 Subtraction

11 Length

4 Multiplication

12 Shapes

5 Division

13 Area

6 Fractions

14 Volume

7 Decimals

15 Position

8 Algebra

★ A review section that can be used as an assessment and to check children's progress is included at the end of each chapter.

★ Answers are at the back of the book.

How to Use This Book

Children can work through the pages from front to back or choose individual topics to reinforce areas where they are struggling.

The topics are introduced with:

- clear instructions, using simple language
- completed examples and incomplete examples for students to tackle before moving on to the **Your Turn** sections
- videos linked by QR codes to provide additional instruction and clarify difficult concepts

A QR code on

a topic page provides access

to the video.

Each Your Turn section contains a SELF CHECK for students to reflect and give self-assessment on their understanding.

146437—Catch-Up Math 5

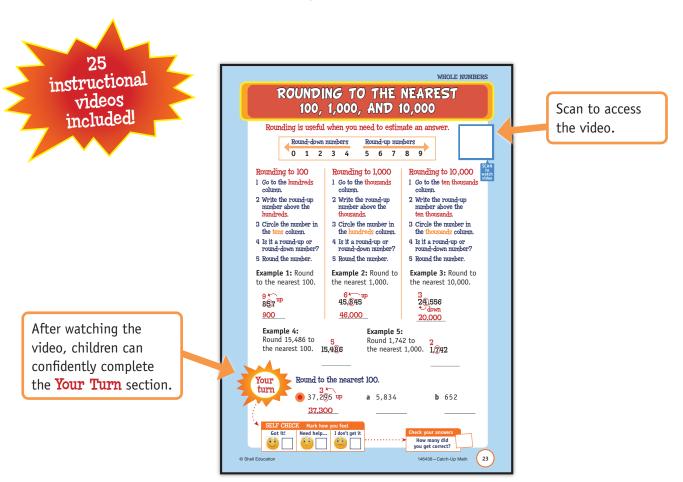
HOW TO USE THE QR CODES IN CATCH-UP MATH

A unique aspect of the **Catch-Up Math** series is the **instructional videos**.

The videos further explain and clarify various mathematical concepts. The videos are simply accessed via QR codes and can be watched on a phone or tablet. Or, view all the videos by following a link.

Access the video by scanning the QR code with your device.

Each video shows the page from the book. An instructor talks through the concepts and examples and demonstrates what students need to do. The solutions to the examples are presented before children tackle the **Your Turn** sections. This careful instruction ensures that children can confidently move on to the following Practice questions. Children should be encouraged to check their **Your Turn** answers before moving on.



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VALUE

THREE-DIGIT, FOUR-DIGIT, AND FIVE-DIGIT NUMBERS

The value of a number is how much a number is worth. To find the value of a digit, look at its place in a number.

For example, what is the value of the 3 in 23,000? The 3 is in the thousands place, so the value of 3 is 3,000.

3-digit numbers

Example 1:

In the number 623, the value of 6 is 600, the value of 2 is 20, and the value of 3 is 3.

Example 2:

In the number 459, the value of 4 is _____, the value of 5 is 50, and the value of 9 is

4-digit numbers

Example 3:

In the number 7,438, the value of 7 is 7,000, the value of 4 is 400, the value of 3 is 30, and the value of 8 is 8.

Example 4:

In the number 6,247, the value of 6 is _____, the value of 2 is _____, the value of _____ is 40, and the value of 7 is 7.

5-digit numbers

Example 5:

In the number 25,681, the value of 2 is 20,000, the value of 5 is 5,000, the value of 6 is 600, the value of 8 is 80, and the value of 1 is 1.

Example 6:

In the number 34,592, the value of 3 is _____, the value of 4 is 4,000, the value of 5 is _____, the value of _____ is 90, and the value of _____ is 2.

Remember, the place value is where the digit is in a number.



The value is how much the digit is worth.



Use red to circle the numbers where the value of 5 is 500. Use blue to circle the numbers where the value of 5 is 50. Use green to circle the numbers where the value of 5 is 5.

62,538	1,453	526	59,342	852	5,493
73,581	8,500	105	72,531	549	1,532
753	2,985	645	7,539	258	5,371

SELF CHECK Mark how you feel

Got it! Need help... I don't get it

Check your answers

How many did you get correct?

RAGIGE



What is the value of 6 in each of these numbers?

- 2,463 60
 - **a** 362
- **b** 6,534
- **c** 2,436

- **d** 64,281
- **e** 4,639
- **f** 16,382 _____
- **g** 5,624
- **h** 3,760
- **i** 7,246
- 6
- **k** 60



Write a number that has a 7 with each given value.

- 70
- 79
- **b** 70,000 _____
- **c** 7,000
- **d** 70
- **e** 7



Circle the digits with the greatest values, and underline the digits with the least values.

(7)3,821

700

d 879

- **h** 1,509
- **l** 555

a 439

- **e** 41,589
- **i** 16,073
- **m** 9,009

- **b** 1,384
- **f** 2,491
- **j** 97,329
- **n** 24,823

593

- **q** 34,285
- **k** 42,444
- **o** 60,399



Circle the numbers with the matching values.

- The value of 3 is 30:
- (37)
- 483
- 342
- (5,037)
- (64,736)
- 3,491

- The value of 5 is 500:
- 359
- - 6,593
- 51
- 34,531
- 5,632

The value of 7 is 7,000:

The value of 9 is 90,000:

- 736 93,246
- 57,111

562

- 3,792
- 7,000
- 47,328
- 98,363

- The value of 2 is 2:
- 49,371
- 90,331
- 893
- 914

- 5,236
- 24,593
- 61,592
- 125
- 59,472 1,582

- The value of 6 is 60:
- 4,165 346

- 64,928 3,265
- 37,469
 - 16,431

74,385



Write numbers that match the descriptions.

- 3 is worth the most 3 4 . 1 7 2
 - 3 is worth the least
- **b** 4 is worth the most
- **d** 7 is worth the most

- **e** 7 is worth the least
- **f** 9 is worth the most
- **g** 9 is worth the least
- **h** 8 is worth the most
- i 8 is worth the least

c 4 is worth the least

ROUNDING TO THE NEAREST 100, 1,000, AND 10,000

Rounding is useful when you need to estimate an answer.

Round-down numbers

0 1 2 3 4 Round-up numbers

5 6 7 8 9

Rounding to 100s

- 1 Go to the hundreds place.
- 2 Write the round-up number above the hundreds.
- 3 Circle the number in the tens place.
- 4 Is it a round-up or round-down number?
- 5 Round the number.

Example 1: Round to the nearest 100.

Example 2: Round to the nearest 100.

8 ← up 753

Rounding to 1,000s

- 1 Go to the thousands place.
- 2 Write the round-up number above the thousands.
- 3 Circle the number in the hundreds place.
- 4 Is it a round-up or round-down number?
- 5 Round the number.

Example 3: Round to the nearest 1,000.

5 up 4,934 5,000

Example 4: Round to the nearest 1,000.

9 8,425 down

Rounding to 10,000s

- 1 Go to the ten thousands place.
- 2 Write the round-up number above the ten thousands.
- 3 Circle the number in the thousands place.
- 4 Is it a round-up or round-down number?
- 5 Round the number.

Example 5: Round to the nearest 10,000.

7 63,282 down 60,000

Example 6: Round to the nearest 10,000.

9 4 up 89,256



Round these numbers to the nearest 100.

3,542 down 3,500

a 7,239

b 385

c 49,563

d 489

e 63,428

SELF CHECK Mark how you feel Got it! Need help... I don't get it





Check your answers

How many did you get correct?

RACTICE



Round these numbers to the nearest 100.

- 126,498
- **b** 8,739
- **d** 15,438
- **f** 1,573,249

126,500

- **a** 1,526
- **c** 403
- **e** 152,493
- **g** 7,594



Round these numbers to the nearest 1,000.

- 4,593,628
- **b** 92,635
- **d** 124,253
- **f** 3,427

4,594,000

- **a** 1,928
- **c** 17,268
- **e** 74,629
- **g** 6,372,871



Round these numbers to the nearest 10,000.

- 53,497
- **b** 274,389
- **d** 3,262,950
- **f** 7,458,218

50,000

- **a** 42,651
- **c** 15,491
- **e** 15,583
- **g** 81,818



Complete the table.

- 53,852
- **a** 34,568
- **b** 59,731
- **c** 54,836
- **d** 97,425
- **e** 580,263
- **f** 742,589
- 9



L

-	,
g	1,429,632
h	5,643,859

Nearest 100	Nearest 1,000	Nearest 10,000
53,900	54,000	50,000

WALUE

SIX-DIGIT AND SEVEN-DIGIT NUMBERS

The value of a number is how much a number is worth. To find the value of a digit, look at where it is in a number.

6-digit numbers

Example 1:

In the number 526,391, the value of 5 is 500,000, the value of 2 is 20,000, the value of 6 is 6,000, the value of 3 is 300, the value of 9 is 90. and the value of 1 is 1.

Example 2:

In the number 742,186, the value of 7 is the value of 4 is 40,000, the value of 2 is , the value of 1 is _____, the value of 8 is 80. and the value of 6 is 6.

7-digit numbers

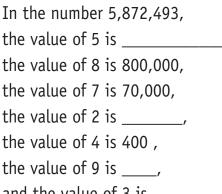
Example 3:

In the number 6,384,173, the value of 6 is 6,000,000, the value of 3 is 300,000, the value of 8 is 80,000, the value of 4 is 4,000, the value of 1 is 100. the value of 7 is 70, and the value of 3 is 3.

Example 4:

In the number 5,872,493,
the value of 5 is
the value of 8 is 800,000,
the value of 7 is 70,000,
the value of 2 is,
the value of 4 is 400,
the value of 9 is,
and the value of 3 is







Remember, the place value is where the digit is in a number. The value is how much the digit is worth.



Use vellow to circle the numbers where 7 has a value of 700,000. Use black to circle the numbers where 4 has a value of 4,000,000.

725,435

4,373,362

736,489

4,759,328

5,768,430

9,759,015

4,873,581

6,700,000

4,573,000

SELF CHECK Mark how you feel Got it! Need help... I don't get it

Check your answers

How many did you get correct?

PRACTICE



What is the value of 8 in each of these numbers?

- 8,052,4368,000,000
- **c** 8,645,590
- **f** 5,493,183
- **i** 583,462

- **a** 3,842,431
- **d** 136,852
- **g** 7,841,320
- **j** 642,837

- **b** 842,376
- **e** 4,382,915
- **h** 1,573,108
- **k** 149,383

2

Complete the information for 7,324,951.

- **7,324,951** ones
- 732,495 tens + 1 ones
- 73,249 hundreds + 5 tens + 1 ones
- **a** _____ thousands + __ hundreds +
 - __ tens + __ ones
- **b** _____ ten thousands + __ thousands
 - + __ hundreds + __ tens + __ ones

- c ___ hundred thousands + __ ten
 thousands + __ thousands +
 - __ hundreds + __ tens + __ ones
- **d** __ millions + __ hundred thousands
 - + __ ten thousands + __ thousands
 - + __ hundreds + __ tens + __ ones

3

Complete the information for 583,284.

- **583,284** ones
- **a** _____ tens + __ ones
- **b** _____ hundreds + ___ tens + ___ ones
- c ____ thousands + __ hundreds +
 - __ tens + __ ones

- **e** __ hundred thousands + __ ten
 - thousands + __ thousands +
 - __ hundreds + __ tens + __ ones



Write three different numbers that fit each description.

- **a** 4 has a value of 400,000
- **b** 6 has a value of 6,000,000
 - _____
- ____
- **c** 3 has a value of 30,000 _____ ___ ___
 - ____
- **d** 7 has a value of 7,000 _____ ___