# GRADE 5

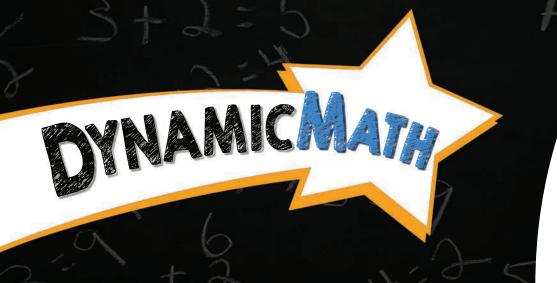
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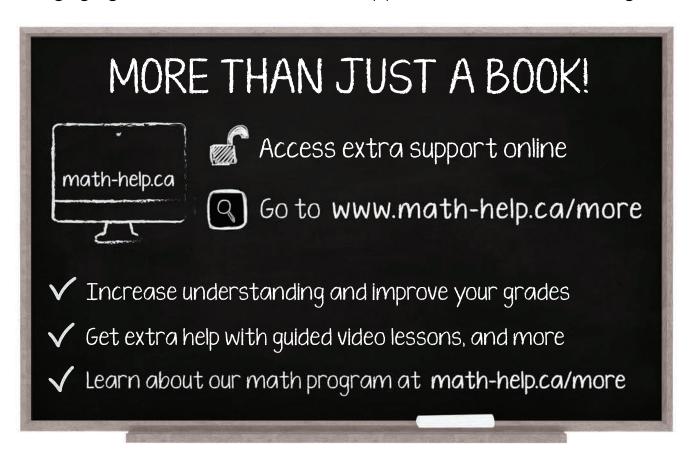
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There are several skills that are important when working in mathematics. If you use these skills when you work on math questions, it will help you to think about how to get to the answers.

#### These skills are:

#### 1. Communicating

Communicating is the process of expressing mathematical ideas and your understanding of them orally, visually, and in writing. To communicate, you use numbers, symbols, pictures, graphs, diagrams, and words to show that you know what is being said or asked. You are expected to be able to express, describe, explain, and apply mathematical ideas in several different ways.

#### 2. Representing

Representing involves different ways of showing mathematical ideas. To represent, you use drawings, physical models, equations, charts, and graphs to help make things clearer so that you can answer the question.

#### 3. Connecting

Connecting is being able to relate mathematical concepts to each other. You should also be able to connect mathematical ideas to the real world.

#### 4. Reasoning

Reasoning involves understanding the relationships that apply to numbers, shapes, or operations. To reason, you have to define the relationship, think about why something is true, and determine to what group of numbers, shapes, or operations it can be applied.

Unit 9 gives more details about each of these skills and gives you examples and questions to help you build your skills in these areas.

# UNIT 1 NUMBER CONCEPTS AND OPERATIONS

- 1.1 Representing and Describing Whole Numbers
- 1.2 Using Estimation
- 1.3 Mental Mathematics for Multiplying
- 1.4 Multiplying 2-Digit Numbers
- 1.5 Dividing 2-Digit by 1-Digit Numbers

If you need additional help, there are more resources available at math-help.ca/more



#### 1.1 Representing and Describing Whole Numbers

#### **Word Numbers and Numerals**

When we express an amount or quantity using words, we call it a **word number**. Examples include twenty-five and one hundred thirty-two. When we use symbols to represent a quantity, we call it a **numeral**; for example, 25 and 132.

Examples: Two thousand one hundred fifty-three OR 2153

WORD NUMBER

NUMERAL

#### **Writing Word Numbers**

When we write a word number to represent a whole number numeral, we <u>don't</u> use the word "and." This word is reserved later for decimals.

#### Examples:

- 1. 138 is written as one hundred thirty-eight **NOT** one hundred <u>and</u> thirty-eight.
- 2. 4530 is written as four thousand five hundred thirty **NOT** four thousand five hundred and thirty.

#### **Numerals and Digits**

Numerals are made up of **digits**. For example, the numeral 356 is made up of the digits 3, 5, and 6. Each one of these digits represents a certain value.

Example: 5368 is made up of the digits 5, 3, 6, and 8, each with different values.

The **value** of each digit depends on its location or **place** in the numeral. For example, in the numeral 235, the digit 2 has a value of 200 because it is in the hundreds place, the digit 3 has a value of 30 because it is in the tens place, and the digit 5 has a value of 5 because it is in the ones place.

#### **Using Proper Spacing Instead of Commas in Numerals**

In Canada, we do not use commas with whole numbers. When a numeral has more than 4 digits, we leave a <u>space</u> instead of a comma between every three digits, working from right to left. We do **not** use a comma or leave a space if there are only four digits.

#### Examples:

| 1. | Use 35 172 instead of 35,172.   | Leave a space with three digits to the right. |
|----|---------------------------------|---|
| 2. | Use 534 873 instead of 534,873. | Leave a space with three digits to the right. |
| 3. | Use 4215 instead of 4,215.      | Since there are only 4 digits, do not leave a |
|    |                                 | space.  |

#### **Examples with Solutions**

1. Write a numeral for each of the following word numbers.

| a. two hundred fifty-three             | 253    |
|--|--------|
| b. one hundred twenty                  | 120    |
| c. three thousand four hundred seventy | 3470   |
| d. six thousand fifty-seven            | 6057   |
| e. five thousand six hundred two       | 5602   |
| f. fifty thousand three hundred six    | 50 306 |

2. Write a word number for each of the following numerals.

| a. 509    | five hundred nine                       |
|-----------|---|
| b. 3238   | three thousand two hundred thirty-eight |
| c. 4044   | four thousand forty-four                |
| d. 6305   | six thousand three hundred five         |
| e. 8230   | eight thousand two hundred thirty       |
| f. 41 206 | forty-one thousand two hundred six      |

3. Write as many different numerals as possible from the following digits.

| 7, 3 | Possible numerals with one digit are 3 and 7. Possible numerals with two digits are 37 |
|------|--|
|      | and 73.  |
|      | All possible numerals are: 3, 7, 37, 73.   |

4. Use proper spacing and delete commas to rewrite each numeral shown incorrectly on the left.

| Incorrectly Written Numeral | Correct Version                      |
|-----------------------------|--------------------------------------|
| a. 4,678                    | 4678 (remove comma, no space)        |
| b. 7 349                    | 7349 (remove space)                  |
| c. 10,348                   | 10 348 (remove comma, insert space)  |
| d. 72,431                   | 72 431(remove comma, insert space)   |
| e. 145,689                  | 145 689 (remove comma, insert space) |

#### Place Value

When we write numerals from 0 to 9, they involve only the "ones" digits.

#### Examples:

- 1. 9 is equal to nine ones.
- 2. 2 is equal to two ones.

When we write numerals from 10 to 99, they involve both "tens" and "ones" digits.

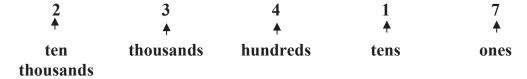
#### Examples:

- 1. 16 is equal to 1 ten and 6 ones.
- 2. 68 is equal to 6 tens and 8 ones.

When we write numerals between 100 and 999, they involve hundreds, tens, and ones digits.

Example: 962 is equal to 9 hundreds, 6 tens, and 2 ones.

Numerals between 1000 and 99 999 can include the "ten thousands, thousands, hundreds, tens, and ones" digits. The number 23 417 is shown below with the place value for each digit.



So 23 417 has 2 ten thousands, 3 thousands, 4 hundreds, 1 ten, and 7 ones (twenty-three thousand four hundred seventeen)

Combine the thousands.

Combine the tens and ones.

#### **Examples with Solutions**

1. What is the value of the underlined digit in each of the following numerals?

| a. | 4 <u>5</u> 3 | The digit 5 is in the tens place, so it is equal to $5 \times 10 = 50$ . |
|----|--------------|--|
|    |              |  |

b.  $68\underline{2}$  The digit 2 is in the ones place, so it is equal to  $2 \times 1 = 2$ .

c.  $\underline{5}09$  The digit 5 is in the hundreds place, so it is equal to  $5 \times 100 = 500$ .

d.  $2\underline{3}45$  The digit 3 is in the hundreds place, so it is equal to  $3 \times 100 = 300$ .

e.  $\underline{5}230$  The digit 5 is in the thousands place, so it is equal to  $5 \times 1000 = 5000$ .

f. 54895 The digit 4 is in the thousands place, so it is equal to  $4 \times 1000 = 4000$ .

g.  $\underline{2}4\ 305$  The digit 2 is in the ten thousands place, so it is equal to  $2 \times 10\ 000 = 20\ 000$ .

2. Write each numeral described below.

| a. | I have 5 | tens, 4 | hundreds, | and 3 | ones. | 453 | 3 |
|----|----------|---------|-----------|-------|-------|-----|---|
| а. | I mave J | tens, T | mununcus, | and J | ones. | т,, | ١ |

b. I have 2 thousands, 3 hundreds and 7 ones. 2307

c. I have 9 hundreds, 7 thousands, and 8 ones. 7908

d. I have 6 ten thousands and 2 hundreds. 60 200

e. I have 3 ten thousands, 1 thousand, and 5 tens. 31 050

f. I have 6 thousands and 3 ones.

g. I have 3 hundreds and 7 thousands. 7300

3. Write each numeral as a word number.

a. 25 040 Twenty-five thousand forty

b. 620 305 six hundred twenty thousand three hundred five

c. 702 027 seven hundred two thousand twenty-seven

d. 800 808 eight hundred thousand eight hundred eight

4. Write each word number as a numeral.

| a. three hundred twenty-five thousand two hundred nine | 325 209 |
|--|---------|
|--|---------|

b. one hundred twenty-five thousand six hundred forty-eight 125 648

c. two hundred thousand three hundred ten 200 310

d. six hundred thousand thirty-five 600 035

#### **Expressing a Numeral using Expanded Form**

We can show a numeral as a sum of the values of its digits. This is called writing the numeral in **expanded form**. For example, 526 is equal to 500 + 20 + 6. Keep in mind the place values of the digits.

Examples:

1. 
$$34 = 3 \times 10 + 4 \times 1 = 30 + 4$$

2. 
$$793 = 7 \times 100 + 9 \times 10 + 3 \times 1 = 700 + 90 + 3$$

3. 
$$8408 = 8 \times 1000 + 4 \times 100 + 0 \times 10 + 8 \times 1 = 8000 + 400 + 8$$

#### **Examples with Solutions**

1. Write each numeral in expanded form.

a. 
$$5642 = 5 \times 1000 + 6 \times 100 + 4 \times 10 + 2 \times 1$$

b. 
$$4059 = 4 \times 1000 + 5 \times 10 + 9 \times 1$$

c. 
$$24\ 040 = 2\ x\ 10\ 000 + 4\ x\ 1000 + 4\ x\ 10$$

2. Write the numeral that has 5 thousands, 2 
$$\underline{5} \times 1000 + \underline{2} \times 100 + \underline{3} \times 10 + \underline{0} \times 1$$
 hundreds, 3 tens, and 0 ones.  $\underline{5} \times 1000 + \underline{2} \times 100 + \underline{3} \times 10 + \underline{0} \times 1$ 

3. Write the word number for the numeral The numeral has 7 thousands, 2 hundreds, 1 ten, and 5 ones.

The word number is **seven thousand two** hundred fifteen.

4. Write 30 574 in words. The numeral has 3 ten thousands, 5 hundreds, 7 tens, and 4 ones.

The word number is thirty thousand five hundred seventy-four.

The numeral is **300 520**.

- 5. Write three hundred thousand five hundred twenty as a numeral.

  There are 3 hundred thousands, 5 hundreds, and 2 tens.
- 6. In the numeral 70 218,
  - a. What is the value of the 2? The 2 is in the hu

The 2 is in the hundreds column, so its value is  $2 \times 100 = 200$ .

b. What is the value of the 1?

The one is in the tens column, so its value is  $1 \times 10 = 10$ .

c. What is the value of the 7?

The 7 is in the ten thousands column, so its value is  $7 \times 10\ 000 = 70\ 000$ .

#### **Exercises 1.1**

1. Write a numeral for each of the following word numbers.

a. one hundred seventy

b. five hundred nine

c. four hundred twenty-four

d. six thousand fifteen

e. two thousand thirty-six

f. twenty-two thousand ten

g. thirty thousand two hundred one

h. two hundred thousand six hundred

2. Write a word number for each of the following numerals.

a. 345

b. 304

c. 1250

d. 2253

e. 32 753

f. 70 150

g. 125 344

h. 333 303

3. Write as many different numerals as possible from the following digits.

a. 5, 2

b. 1, 7

4. Rewrite each numeral using proper spacing and deleting commas.

a. 4790

b. 7,666

c. 5,555

d. 12,456

|    | 20 | ١ 1  | 10 |
|----|----|------|----|
| e. | 30 | Ι, Ι | 48 |

5. Fill in each blank with the correct digit in the table below.

|           | ten<br>thousands | thousands | hundreds | tens | ones |
|-----------|------------------|-----------|----------|------|------|
| a. 405    |                  |           |          |      |      |
| b. 2210   |                  |           |          |      |      |
| c. 6070   |                  |           |          |      |      |
| d. 5055   |                  |           |          |      |      |
| e. 20 245 |                  |           |          |      |      |
| f. 31 042 |                  |           |          |      |      |
| g. 78 103 |                  |           |          |      |      |

| _  |         |      | _            | _       |               | _             |
|----|---------|------|--------------|---------|---------------|---------------|
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| 9 | 45 | いつ |
|---|----|----|

#### 7. Write each numeral described below.

- a. I have 3 thousands, 2 tens, and 7 ones.
- b. I have 6 hundreds and 9 ones.
- c. I have 2 ten thousands, 3 hundreds, 5 tens, and 2 ones.
- d. I have 8 thousands, 3 tens, and 5 ones.

#### 8. What is the value of the digit underlined in each numeral?

c. 6<u>3</u> 697 d. <u>5</u>4 207

9. Draw an arrow to match the numeral on the left with the correct word number on the right. The first one is done for you.

| a. 125 430 | nine hundred eight thousand eight                    |
|------------|--|
| b. 750 209 | one hundred twenty-five thousand four hundred thirty |
| c. 300 025 | four hundred ten thousand ten                        |
| d. 908 008 | seven hundred fifty thousand two hundred nine        |
| e. 410 010 | three hundred thousand twenty-five                   |
| f. 125 043 | three hundred thousand two hundred fifty             |
| g. 300 250 | one hundred twenty-five thousand forty-three         |

#### **Extra for Experts**

WHAT NUMBER AM I?

- 10. I have 3 thousands, 2 hundreds, 0 tens, and 2 ones.
- 11. I have 2 hundreds, three times as many tens as hundreds, and half as many ones as hundreds.
- 12. I have 15 ones and 9 tens.
- 13. I have 30 tens and 2 ones.

- 14. I have 14 hundreds, 6 tens, and 18 ones.
- 15. I have twice as many thousands as tens, twice as many tens as ones, and 2 less than 4 ones.
- 16. I have 6 thousands, half as many hundreds as thousands, and the same number of tens and ones as hundreds.
- 17. I have the same number of thousands, hundreds, tens, and ones. The sum of my digits is 28.
- 18. List all of the 3-digit numerals that can be made from the digits 3, 6, and 9.
- 19. List all of the numerals containing one, two, or three digits than can be made from the digits 5, 2, and 3.

## ABORIGINAL APPLICATIONS THE SALMON







Artist: T. Isaac

The Salmon is an extremely important part of the lifestyle and culture of Coastal First Nations people. Its importance as a food source and its impact on the way of life of Aboriginals gives the Salmon a position of special honour and respect.

Through different methods of preserving food, such as smoking, canning, and drying, the Salmon provides food throughout the year. The Salmon is an important figure in special gatherings and artwork, and it serves as a symbol of renewal and prosperity.

#### **Math Applications**

- 1. If 22 salmon each had a mass (weight) of 4 kg. What would their total mass (weight) be in kilograms?
- 2. A bin of salmon at a cannery had a total mass of 132 kg. If each salmon had a mass of 6 kg, how many salmon were in the bin?

#### **Answers**

 $1.22 \times 4 = 88$ 

The total mass would be 88 kg.

 $2.132 \div 6 = 22$ 

There were 22 salmon in the bin.

## **ANSWERS TO**

## **EXERCISES AND**

## **UNIT TESTS**

#### UNIT 1

#### Exercises 1.1 (page 7)

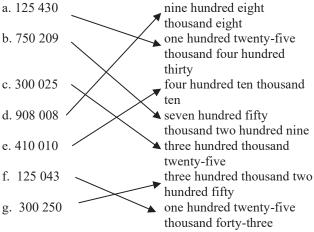
**1.** a) 170 b) 509 c) 424 d) 6015 e) 2036

**f)** 22 010 **g)** 30 201 **h)** 200 600

2. a) three hundred forty-five

- **b)** three hundred four
- c) one thousand two hundred fifty
- d) two thousand two hundred fifty-three
- e) thirty-two thousand seven hundred fifty-three
- f) seventy thousand one hundred fifty
- **g)** one hundred twenty-five thousand three hundred forty-four
- h) three hundred thirty-three thousand three hundred three 3. a) 2, 5, 25, 52 b) 1, 7, 17, 71
- **4. a)** 4790 **b)** 7666 **c)** 5555 **d)** 12 456
- e) 30 148 f) 22 088 g) 470 031 h) 330 022
- **5. a)** 0 0 4 0 5 **b)** 0 2 2 1 0 **c)** 0 6 0 7 0
- **d)** 0 5 0 5 5 **e)** 2 0 2 4 5 **f)** 3 1 0 4 2
- **g)** 7 8 1 0 3
- **6. a)**  $4 \times 1000 + 5 \times 100 + 2 \times 10 + 2 \times 1$
- **b)**  $3 \times 1000 + 2 \times 10 + 2 \times 1$
- c)  $4 \times 10\ 000 + 2 \times 100 + 5 \times 10$
- **d)**  $1 \times 10\ 000 + 2 \times 1000 + 9 \times 10$
- e)  $3 \times 10\ 000 + 8 \times 1000 + 8 \times 10$
- f)  $1 \times 100\ 000 + 2 \times 10\ 000 + 7 \times 100 + 9 \times 10$
- 7. a) 3027 b) 609 c) 20 352 d) 8035
- **8. a)** 600 **b)** 90 **c)** 3000 **d)** 50 000

9.



**10.** 3202 **11.** 261 **12.** 105 **13.** 302 **14.** 1478

**15.** 8042 **16.** 6333 **17.** 7777

**18.** 369, 396, 639, 693, 936, 963 **19.** 2, 3, 5, 23,

32, 25, 52, 35, 53, 523, 532, 253, 235, 352, 325

#### Exercises 1.2 (page 13)

**1. a)** 60 **b)** 90 **c)** 200

**d)** 12 200 **e)** 19 000 **f)** 2540 **g)** 72 000

**h**) 1660 **i**) 90 900 **j**) 191 920 **k**) 65 000

**2. a)**  $30 \times 40$ ; 1200 **b)**  $100 \times 300$ ; 30000

c)  $50 \times 100$ ; 5000 d)  $300 \times 300$ ; 90000

e)  $1000 \times 100$ ;  $100\ 000$  3. 300 + 300 + 600;

1200 **4.** 500 + 600 + 500 + 600; 2200 km

5. 40 + 60 + 70 + 110; 280 tickets

**6.** 300 + 500 + 200 + 500; 1500 cards

7. 70 + 70 + 40 + 70 + 90 + 90 + 90 + 60;

580 students **8.** 15 675, 15 676, 15 677,

15 678, 15 679 **9.** 1, 2, 3, 4 **10.** Round 21

months down to 20 and round the number of

days in each month to 30.  $30 \times 20 = 600$ 

11. a) 35, 36, 37, 38, 39 40, 41, 42, 43, 44

11. a) 55, 50, 57, 50, 57 40, 41, 42, 45, 4

**b)** 8550, 8551, 8552, 8553, 8554, 8555

**12. a)** 9842 **b)** 2489

#### Exercises 1.3a (page 17)

**1.** a) 24, 30 b) 32, 48, 56 c) 28, 35

**d)** 18, 24, 27 **e)** 16, 28, 32, 36

**f)** 10, 14, 16, 18 **g)** 63, 72 **h)** 48, 54

2.



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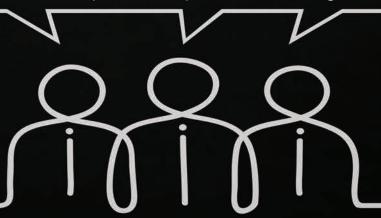


My son would never have passed grade 10 without Dynamic Math. Thank you!

My daughter loves your math books because she can work through them on her own. We'll definitely be buying the next grade in the fall.

I was so happy to finally find a math workbook that was exactly what my son was doing in class.







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