

**SAMPLE PAGES FOR
THE READY
EOG ASSESSMENT**

**THE
COMPETITIVE
EDGE**

FOURTH GRADE MATHEMATICS

with COMMON CORE STATE STANDARDS

2012 EDITION

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CPC

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PART I—WHOLE NUMBER PLACE VALUE

Ten digits are used to represent our system of numbers: 0, 1, 2, 3, 4, 5, 6, 7, 8, and 9. These numbers are called **whole numbers**.

By using a **place-value chart**, you can see the value of each digit used in a whole number. The value of each digit depends on its place in a numeral. The value of each place is 10 times as great as the value of the place next to it on the right.

Hundred Thousands	Ten Thousands	Thousands		Hundreds	Tens	Ones
1	1	1	,	1	1	1

1 Hundred Thousand
100,000

1 Ten Thousand
10,000

1 Thousand
1,000

1 Hundred
100

1 Ten
10

1 One
1

$$\underline{100,000} = 10 \times \underline{10,000} = 10 \times \underline{1,000} = 10 \times \underline{100} = 10 \times \underline{10} = 10 \times \underline{1}$$

or

$$\underline{100,000} \div 10 = \underline{10,000} \div 10 = \underline{1,000} \div 10 = \underline{100} \div 10 = \underline{10} \div 10 = \underline{1}$$

- Commas are used to separate the digits of larger numbers so you can read them easier. Commas are placed to the left of every third digit in a number represented by four or more digits.

6,237

Start from the right and count over three digits. Put a comma to the left of the third digit.

EXAMPLE

Put the number 362,405 in a place-value chart.

Hundred Thousands	Ten Thousands	Thousands		Hundreds	Tens	Ones
3	6	2	,	4	0	5

What is the value of the 6 in this numeral?

The 6 is in the ten thousands place, so the value of the 6 is 60,000.

Which digit is in the hundreds place?

The 4 is in the hundreds place.

PRACTICE

Name the place value of each underlined number. Write the value of each digit.

1. 65,007 _____

2. 175,125 _____

3. 2,451 _____

4. 3,712 _____

5. 823,211 _____

6. 16,750 _____

7. 862 _____

8. 756 _____

9. 142,016 _____

10. 141,376 _____

11. 136 _____

12. 171,364 _____

13. 1 hundred = _____ tens

14. 10 thousands = _____ hundreds

15. 100 tens = _____ thousands

16. 10 tens = _____ hundreds

17. 10 hundreds = _____ thousands

PART 2—WRITING NUMBERS IN WORDS AND IN STANDARD FORM

EXAMPLES

145,129

1. To write this number in **words**, underline the numbers separated by the comma.
2. Write the numbers in words (from left to right) that you underlined, leaving a space for the comma.

one hundred forty-five _____ one hundred twenty-nine

3. Fill in the space with the word for the comma. (Commas are named from right to left.) First comma = thousand.

one hundred forty-five thousand, one hundred twenty-nine

(three hundred two) thousand (five hundred nineteen)

1. To write this number in **standard form** (base-ten numbers), first underline the word that represents the comma (thousand).
2. Put parentheses around the words that represent numbers.
3. Write the numbers that represent the words and put a comma in the place of the underlined word.

302,519

PRACTICE

Write each number in words.

1. 99,243 _____

2. 111,200 _____

3. 345,124 _____

4. 59,941 _____

5. 8,310 _____

6. 124,000 _____

7. 1,220 _____

8. 300,402 _____

9. 92,007 _____

10. 521,487

11. 20,100

12. 300,017

13. 399,999

14. 5,143

15. 210,366

Write each in standard form.

16. one hundred twenty thousand, eighteen

17. one hundred thousand, eighty-four

18. nine hundred thousand, seven hundred fifty

19. ten thousand, four hundred twenty-one

20. eight hundred three thousand, seventy-one

21. ninety-three thousand, twenty-two

22. thirty thousand, nine hundred

23. five hundred thousand, eleven

24. twelve thousand, one hundred one

25. two hundred seventeen thousand, seven hundred ninety-one

26. two thousand, four hundred twenty-three

27. six thousand, nine hundred

28. twenty thousand, one hundred seventy-two

29. eight hundred forty-seven thousand, nine hundred fifty-eight

30. nineteen thousand, seven

PART 3—EXPANDED FORM

To write numbers in **expanded form**, write the numbers as an addition problem of place values. This shows the value of each digit.

EXAMPLE

Hundred Thousands	Ten Thousands	Thousands		Hundreds	Tens	Ones
2	1	6	,	3	9	4

Write the value of each digit.

2 hundred thousands = 200,000

1 ten thousands = 10,000

6 thousands = 6,000

3 hundreds = 300

9 tens = 90

4 ones = 4

Now write your addition problem using these values.

200,000 + 10,000 + 6,000 + 300 + 90 + 4

PRACTICE

Write each number in expanded form.

1. 14,563

2. 120,136

3. 314,213

4. 568

5. 210,321

6. 12,502

7. 147,002

8. 367

9. 143,867

10. 93

11. 5,113

12. 39,786

13. 419,379

14. 83

15. 3,101

16. 339,204

17. 41,999

18. 15,924

19. 1,003

20. 80,436

Which number is more: 124,586 or 124,586?

Hundred Thousands	Ten Thousands	Thousands		Hundreds	Tens	Ones
1	2	4	,	5	8	6
1	2	4	,	5	8	6

1 2 4, 5 8 6

The numbers are the same.

1 2 4, 5 8 6

$124,586 = 124,586$

= is equal.

↑ same
↑ same
↑ same
↑ same
↑ same
↑ same

- To **order** numbers, you put numbers from smallest to largest (least to greatest) or largest to smallest (greatest to least).

EXAMPLE

Order the following numbers from smallest to largest.

368; 217; 3,145; 296; 475; 2,176

smallest to largest:

217; 296; 368; 475; 2,176; 3,145

Order the following numbers from largest to smallest.

875; 126; 907; 5,064; 882; 119

largest to smallest:

5,064; 907; 882; 875; 126; 119

PRACTICE

Compare the following numbers. Use >, <, or =.

1. 5,369 _____ 5,907

8. 9,674 _____ 9,647

2. 2,136 _____ 2,136

9. 12,076 _____ 12,760

3. 7,016 _____ 7,016

10. 55,483 _____ 55,843

4. 12,924 _____ 12,925

11. 6,751 _____ 8,214

5. 8,002 _____ 8,017

12. 3,400 _____ 4,300

6. 9,347 _____ 9,347

13. 926 _____ 862

7. 81,073 _____ 80,376

14. 3,456 _____ 3,456

Order these numbers from smallest to largest.

15. 375; 120; 456; 369; 214; 707

16. 5,136; 6,341; 5,200; 6,124; 5,380; 1,276

17. 9,457; 8,300; 2,413; 3,600; 8,477; 3,760

18. 12,175; 13,400; 5,403; 9,111; 11,004; 10,147

19. 3,000; 3,003; 8,401; 2,416; 3,402; 3,450

Order these numbers from largest to smallest.

20. 8,117; 9,217; 3,107; 5,607; 8,126; 402

21. 12,455; 12,545; 12,602; 12,142; 12,592

22. 3,402; 9,304; 20; 5,607; 8,921

23. 5,113; 5,201; 5,175; 5,296; 5,342

24. 9,000; 9,075; 9,134; 9,012; 9,457; 9,301

REVIEW

- What is the place value of the 4 in 73,425?
 - ten thousands
 - hundreds
 - tens
 - ones
- What is the value of the 7 in 173,245?
 - 700,000
 - 70,000
 - 7,000
 - 700
- $40,000 + 7,000 + 500 + 23$ in standard form is _____.
 - 4,752
 - 47,500
 - 47,523
 - 407,523
- Which of the following is 14,573 in expanded form?
 - $14 + 500 + 70 + 3$
 - $10,000 + 4,000 + 500 + 70 + 3$
 - $14,000 + 500 + 70 + 3$
 - $14,000 + 573$
- 3,925 is which of the following in words?
 - thirteen nine two five
 - thirteen hundred ninety twenty-five
 - thirteen thousand, nine hundred twenty-five
 - thirteen thousand, nine twenty-five
- What is sixty thousand, two hundred thirty in standard form?
 - 623
 - 6,230
 - 60,230
 - 600,230
- $30,000 + 200 + 10 + 7$ is what in standard form?
 - 3,217
 - 30,217
 - 32,107
 - 320,107
- Which group of numbers is ordered from least to greatest?
 - 7,513; 10,386; 9,211; 11,275
 - 7,513; 9,211; 10,386; 11,275
 - 11,275; 10,386; 9,211; 7,513
 - 11,275; 10,386; 7,513; 9,211
- Which group of numbers is ordered from greatest to least?
 - 9,134; 9,214; 9,387; 9,456
 - 9,214; 9,387; 9,450; 9,136
 - 9,456; 9,387; 9,136; 9,214
 - 9,456; 9,387; 9,214; 9,136
- Which number below is the greatest?
 - 95,432
 - 96,432
 - 96,032
 - 96,342
- Which column has the smallest number?

Column A	56,146
Column B	56,416
Column C	56,614
Column D	55,614

- a. A
 - b. B
 - c. C
 - d. D
12. A local high school has 2,314 students enrolled. Which digit is in the hundreds place?
- a. 1
 - b. 2
 - c. 3
 - d. 4
13. What is another way to show twenty thousand, two hundred fifty?
- a. 20,150
 - b. 20,215
 - c. 20,250
 - d. 20,251

14. What is the value of the 6 in 46,124?
- a. 60,000
 - b. 6,000
 - c. 600
 - d. 60
15. Which number has the digit 3 in the ten thousands and tens place?
- a. 3,312
 - b. 41,332
 - c. 36,314
 - d. 134,230
16. How many times greater is a digit in the hundreds place than that same digit in the ones place?
- a. 10
 - b. 100
 - c. 1000
 - d. 1,000

-
17. A city has a population of 217,732. Write this population in words.

Write this population in expanded form.

How many times greater is the 7 in the thousands place than the 7 in the hundreds place? Explain your answer.

18. The Wynne farm has 10,375 acres. Use this table to help you explain how to find the farms that have more acres than the Wynne farm.

Farm	Acres
Griffin	12,145
Poole	9,365
Forbes	5,220
Johnson	11,936

19. Write each number in the place-value chart. 2,104; 2,250; 2,281; 2,098

Hundred Thousands	Ten Thousands	Thousands	Hundreds	Tens	Ones

Which number is greater than 2,279 but less than 2,288?

Which number is greatest? Explain your answer.

Which number is least? Explain your answer.

Write each number in expanded form.

20. In the number 3,244, explain how the value represented by the digit in the tens place is related to the value represented by the digit in the ones place.