

Learn About

Building Number Sense: Place Value, Even and Odd Numbers, and Writing Numbers

Numbers are made up of digits. Each digit in a number has a **place value**. The value of a digit depends on its place in a number. The chart shows the place values of the digits in the number 3527. The value of the 5 in this number is 500.

thousands (1000)	hundreds (100)	tens (10)	ones (1)
3	5	2	7

Numbers are either **even** or **odd**. Even numbers have the digits 0, 2, 4, 6 or 8 in the ones place. Odd numbers have the digits 1, 3, 5, 7 or 9 in the ones place. The number 3527 is odd because it has a 7 in the ones place.

The number 3527 has 3 thousands, 5 hundreds, 2 tens and 7 ones. Numbers can be written in different ways.

- Standard form: 3527
- Word form: three thousand, five hundred and twenty-seven
- Expanded form: $3000 + 500 + 20 + 7$

Jenny has 276 dollar coins in her piggy bank. What is the value of the 7 in the number 276?



The 7 is in the tens place.
Seven tens is 70.
The value of the 7 in 276 is 70, or \$70.



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*Look at the answer choices for each question.
Read why each answer choice is correct or
not correct.*

1. In what place is the shaded star sticker?

(A) second

This is not the correct answer. Starting with the star labelled *start*, count the stars. The shaded star is number six. It is the sixth star in the row, not the second.

(B) fourth

This is not the correct answer. Starting with the star labelled *start*, count the stars. The shaded star is number six. It is the sixth star in the row, not the fourth.

(C) sixth

This is the correct answer. Starting with the star labelled *start*, count the stars. The shaded star is number six. It is the sixth star in the row.

(D) seventh

This is not the correct answer. Starting with the star labelled *start*, count the stars. The shaded star is number six. It is the sixth star in the row, not the seventh.

2. What is the value of the 2 in the number 243?

(A) 2000

This is not the correct answer. The 2 is in the hundreds place. Two hundreds equal 200, not 2000.

(B) 200

This is the correct answer. The 2 is in the hundreds place. Two hundreds equal 200.

(C) 20

This is not the correct answer. The 2 is in the hundreds place. Two hundreds equal 200, not 20.

(D) 2

This is not the correct answer. The 2 is in the hundreds place. Two hundreds equal 200, not 2.

Lesson 10

Read the passage.
Then do Numbers 1–5.

Recycling Cans

Students collect cans from around town. The cans are made of aluminium. Some cans are food cans. Other cans are drink cans. Students clean the cans. Then they take them to a recycling centre. The recycled cans are used to make new cans. Students collect 8970 cans in one year.



thousands (1000)	hundreds (100)	tens (10)	ones (1)
8	9	7	0

1. Which of these is 8970 in word form?

- Ⓐ eight hundred and ninety-seven
- Ⓑ eight thousand and seventy
- Ⓒ eight thousand, nine hundred and seven
- Ⓓ eight thousand, nine hundred and seventy

2. Which number written in expanded form is equal to 8970?

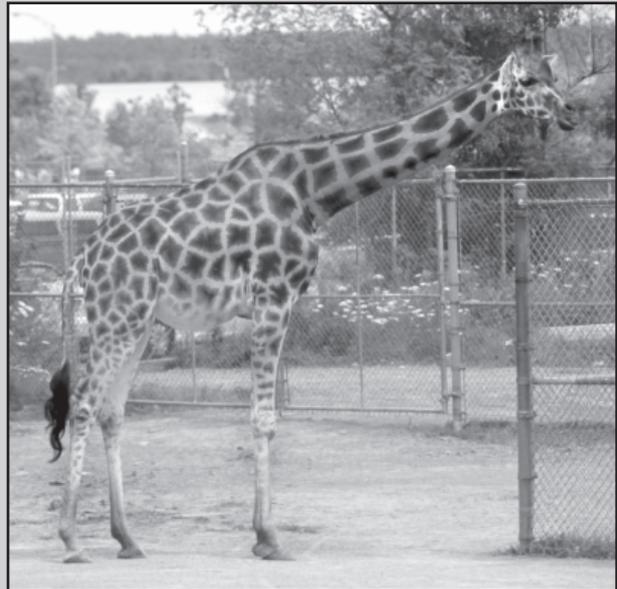
- Ⓐ $800 + 90 + 70$
- Ⓑ $800 + 90 + 7$
- Ⓒ $8000 + 900 + 70$
- Ⓓ $80,000 + 9000 + 700$

Lesson 15

*Read the passage.
Then do Numbers 1–5.*

A Tall Animal

Kelly sees a giraffe at the zoo. The giraffe is very tall. It eats leaves from the tops of trees. The zookeeper says that the giraffe likes to eat carrots, too. The giraffe has such big feet. Each foot is the size of a dinner plate. Kelly is surprised to hear the giraffe make noises. It moos, whistles and roars.



1. The giraffe is 504 centimetres tall. Which of these is 504 in word form?

- Ⓐ fifty-four
- Ⓑ five hundred and four
- Ⓒ five hundred and forty
- Ⓓ five thousand and four

2. The number of kilograms of food the giraffe eats in a day is an even number. Which could be the number of kilograms of food the giraffe eats?

- Ⓐ 29 kilograms
- Ⓑ 33 kilograms
- Ⓒ 34 kilograms
- Ⓓ 45 kilograms

Self-Assessment 2

Lessons 6–10

Answer these questions after you have completed Lessons 6–10. Before you begin, re-read what you wrote in Self-Assessment 1.

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Name _____ Date _____

1. Rate your work in Lessons 6–10. Circle your answer.

successful

somewhat successful

needs improvement

2. Did any of the questions give you trouble? _____

If so, what kind of trouble did you have?

Is this the same kind of trouble you had in Lessons 1–5? _____

3. Did you find the questions easier or more difficult than those in Lessons 1–5?

Why do you think this is so?

4. Did you meet the goal you set for yourself for Lessons 6–10? _____

Why or why not?

5. What is your goal for Lessons 11–15?

Cut along the dotted line.