

Place Value and Rounding: math practice, Grade 4 – download the PDF

21 problems graded by difficulty (★ easy, ★★ medium, ★★★ hard). Try first, without looking at the solutions!

1 Value of each digit



Here is the number **583,214** in a place-value chart.

Hundred thousands	Ten thousands	Thousands	Hundreds	Tens	Ones
5	8	3	2	1	4
thousands period			ones period		

Give the value of each digit.

2 Video views



A cooking video got **705,420** views. (a) Which digit is in the ten thousands place? (b) What is the value of the 5? (c) What is the value of the 4?

3 From words to digits



Write each number in standard form.

- a. four hundred sixty thousand, two hundred nine
- b. eighty-one thousand, seven
- c. five hundred thousand, thirty

4 From digits to words



Write each number in word form.

- a. 72,540
- b. 305,006
- c. 1,000,000

5 Which symbol?



Copy and write $<$, $>$ or $=$ in each blank.

- a. 4,805 ____ 4,850
- b. 67,210 ____ 9,999
- c. $300,000 + 5,000$ ____ 305,000
- d. 12,340 ____ 12,304

6 Rounding to the nearest ten



Round each number to the nearest ten: (a) 67 (b) 354 (c) 2,396.

7 Ten times as much



Fill in each blank.

a. $10 \times 90 = \underline{\quad}$

b. $10 \times 4,000 = \underline{\quad}$

c. 8,000 is 10 times $\underline{\quad}$.

d. 50,000 is 10 times $\underline{\quad}$.

8 Comparing two digits



Look at the number **335,000**. (a) Is the value of the 3 in the hundred thousands place 10 times the value of the 3 in the ten thousands place? (b) Is the value of the 3 in the ten thousands place 10 times the value of the 5? Explain.

9 Expanded form



(a) Write **538,206** in expanded form. (b) Write **70,090** in expanded form. (c) Write $600,000 + 4,000 + 50 + 1$ in standard form.

10 Putting numbers in order

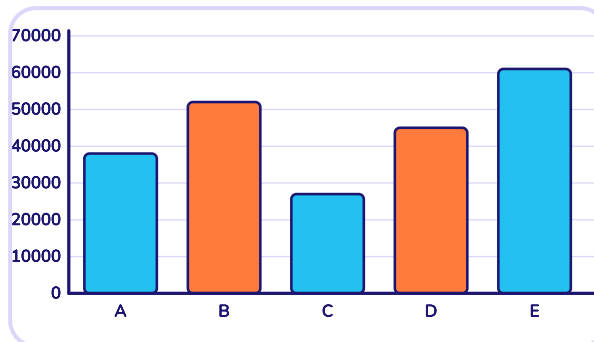


Order these numbers from least to greatest: **85,031, 83,501, 85,301, 83,051**.

11 Stadium seats



The bar graph shows the number of seats in five stadiums.



(a) List the stadiums from the most seats to the fewest. (b) Round each capacity to the nearest ten thousand.

12 Rounding to the nearest hundred



Round to the nearest hundred: (a) **3,462** (b) **8,950** (c) **12,049** (d) **99,951**.

13 Muffin sales



A bakery sold **24,618** muffins last year. (a) Round this number to the nearest thousand. (b) Round it to the nearest ten thousand. (c) Which rounded number is closer to the real one?

14 A hiking estimate



A hiker walks one trail of **7,845** feet and then another of **5,190** feet. (a) Estimate the total distance by rounding each trail to the nearest thousand. (b) The hiker thinks the total is about **15,000** feet. Is that reasonable?

15 **Mystery number**



Find the six-digit mystery number.

- The hundred thousands digit is 7.
- The ten thousands digit is 4 less than the hundred thousands digit.
- The thousands digit is twice the ten thousands digit.
- The hundreds digit is 0.
- The tens digit is the sum of the ten thousands digit and the thousands digit.
- The ones digit is 1 more than the thousands digit.

16 **Greatest and least**



Use each of the digits 2, 9, 0, 5, 7 and 4 exactly once to build (a) the greatest six-digit number and (b) the least six-digit number. A number cannot start with 0.

17 **All the numbers that round to 650,000**



A whole number rounds to **650,000** when rounded to the nearest ten thousand. What are the least and the greatest whole numbers it could be?

18 **Find the mistake**



Maya says that **3,596** rounded to the nearest hundred is **3,500** because “the hundreds digit is 5 and I keep it.” Explain her mistake and give the correct answer.

19 True or false?



Decide if each statement is true or false, and explain.

- a. **60,000** is 10 times as much as **6,000**.
- b. **900** is 10 times as much as **9**.
- c. **4,500** rounds to **5,000** and **4,499** rounds to **4,000** (nearest thousand).
- d. **38,260** rounds to **39,000** to the nearest thousand.

20 Rounding to the nearest hundred thousand



Round each number to the nearest hundred thousand: **449,999**, **450,000**, **512,300**, **549,999**. Which two numbers are only 1 apart but round to different values?

21 Tickets and precision



A theater sold **18,740** tickets on Friday, **21,380** on Saturday and **19,260** on Sunday. (a) Estimate the total by rounding each day to the nearest thousand. (b) Estimate again by rounding each day to the nearest ten thousand. (c) Find the exact total. Did the theater sell more than **60,000** tickets? Which estimate was more helpful?



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