

Place Value and Rounding: math practice, Grade 3 – download the PDF

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

1 Value of a digit



Look at the number 638.

- a. What is the value of the digit 6?
- b. What is the value of the digit 3?
- c. What is the value of the digit 8?

2 Numbers in digits



Write each number in digits.

- a. four hundred twelve
- b. seven hundred six
- c. nine hundred ninety

3**Numbers in words**

Write each number in words.

a. 580

b. 305

c. 861

4**Expanded form**

Write each number in expanded form.

a. 253

b. 807

c. 460

5**Greater or less?**

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

a. 345 ○ 354

b. 600 ○ 599

c. 721 ○ 712

d. 408 ○ 480

6 Round to the nearest 10



Round each number to the nearest 10.

- a. 23
- b. 67
- c. 85
- d. 142
- e. 395

7 Round to the nearest 100



Round each number to the nearest 100.

- a. 240
- b. 760
- c. 450
- d. 128

8 Order the numbers



Put these numbers in order from least to greatest: 482, 428, 842, 248, 824.

9 True or false?



Say whether each statement is true or false. Explain your answer.

- a. In 505, both 5s have the same value.
- b. $600 + 30 + 9 = 639$
- c. 459 rounded to the nearest 10 is 460.
- d. $90 + 800 + 1 = 981$

10 Books in the library



A school library has 487 picture books.

- Round the number of books to the nearest 10.
- Round the number of books to the nearest 100.

11 Missing digit



Which digits can go in the box so that the number $5\Box3$ is greater than 560? List all the possible digits and explain.

12 Jumps of 10 and 100



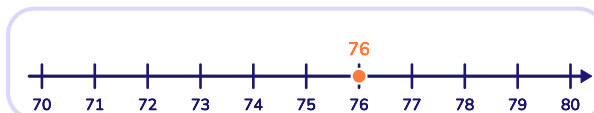
Find each number.

- 10 more than 395
- 10 less than 700
- 100 more than 345
- 100 less than 999

13 Use the number line



The number line shows 76.

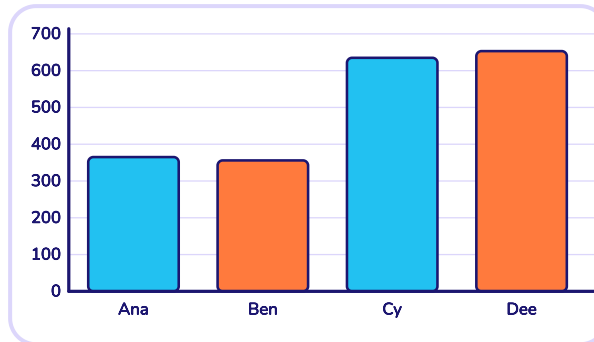


Is 76 closer to 70 or to 80? What is 76 rounded to the nearest 10?

14

Who scored the most?

Four players played a video game. The bar chart shows their scores.

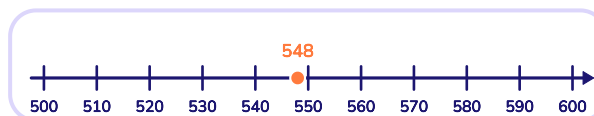


- Who scored the most points?
- Write the four scores from greatest to least.

15

Round to the nearest hundred

A point on the number line shows 548.



- Round 548 to the nearest 10.
- Round 548 to the nearest 100.

16

Find the mistake

Leo rounded 349. He said: "To the nearest 10, I get 340. To the nearest 100, I get 400." Are both answers right? Explain what went wrong and give the correct answers.

17 **Mystery number**



I am a three-digit number. My hundreds digit is 5 and my tens digit is 7. Rounded to the nearest 10, I become 580.

- What are the possible ones digits?
- I also have an even ones digit. What could I be?

18 **Largest and smallest**



Use each of the digits 4, 0 and 7 exactly once to make a three-digit number. The number cannot start with 0.

- List all the numbers you can make.
- Which is the greatest? Which is the least?
- Round each number to the nearest 100.

19 **Estimate at the bakery**



A bakery sold 284 muffins on Saturday and 347 muffins on Sunday. Round each number to the nearest 100 and add to estimate the total. Then find the exact total and compare.

20 **Numbers that round to 700**



A number rounds to 700 when it is rounded to the nearest 100.

- What is the smallest whole number that could it be?
- What is the greatest?
- How many different whole numbers round to 700?

21**Hundreds, tens and ones**

Mia builds numbers with blocks. Write each number she builds.

- a. 4 hundreds, 12 tens and 3 ones
- b. 7 hundreds and 15 tens
- c. 9 tens and 14 ones

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