



## SKILL 4: Rounding Decimals

The rules for rounding decimals are similar to those for rounding whole numbers.

### Example 1

**Round 34.0692 to the nearest hundredth.**

**Step 1:** Find the place to which you want to round.

**Step 2:** Look at the digit to its right.

**Step 3:** If this digit is 5 or greater, round up. If it is less than 5, round down.

**Step 4:** Drop the digits to the right.

34.0692

6 is in the hundredths place.

9 is to the right of 6 hundredths.  
 $9 > 5$ , so round up by adding 1 to the 6 and dropping the remaining digits to the right.

34.07 Round up to 34 and 7 hundredths.

So, 34.0692 rounded to the nearest hundredth is 34.07.

### Example 2

**Round 3.97 to the nearest tenth.**

3.97 The digit to the right of 9 tenths is 7, so round up.

4.0 The 0 in the tenths place shows rounding to the nearest tenth.

3.97 rounds to 4.0 when rounded to the nearest tenth.

### Example 3

**Round \$6.35 to the nearest dollar.**

\$6.35 The whole number is 6. The digit to the right is less than 5, so round down by dropping the digits to the right of the 6.

\$6.35 rounds to \$6, or \$6.00, when rounded to the nearest dollar.

### Guided Practice

**Round 0.249 to the nearest tenth.**

- The tenths digit is \_\_\_\_\_.
- The digit to the right of the tenths digit is \_\_\_\_\_.
- Do you round up or down? Why? \_\_\_\_\_
- To the nearest tenth, 0.249 rounds to \_\_\_\_\_.

**Name the place value of the underlined digit. Then round to this place.**

5. 4.652

6. 19.304

7. 59.9

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

**SKILL 4: Practice**

Give the place value of the underlined digit. Then round the number to this place value.

1.  $4\text{.}\underline{2}4$

\_\_\_\_\_

\_\_\_\_\_

2.  $7.\underline{7}961$

\_\_\_\_\_

\_\_\_\_\_

3.  $96.\underline{0}8$

\_\_\_\_\_

\_\_\_\_\_

4.  $1.\underline{8}81$

\_\_\_\_\_

\_\_\_\_\_

5.  $20.\underline{9}93$

\_\_\_\_\_

\_\_\_\_\_

6.  $13.20\underline{4}3$

\_\_\_\_\_

\_\_\_\_\_

Round to the underlined place value.

7.  $27.\underline{2}7$

\_\_\_\_\_

8.  $191.\underline{8}5$

\_\_\_\_\_

9.  $796.\underline{3}01$

\_\_\_\_\_

10.  $7.\underline{0}94$

\_\_\_\_\_

11.  $298.\underline{9}9$

\_\_\_\_\_

12.  $0.\underline{5}55$

\_\_\_\_\_

13.  $0.69\underline{2}1$

\_\_\_\_\_

14.  $40\underline{9}.7$

\_\_\_\_\_

15.  $0.\underline{6}07$

\_\_\_\_\_

16.  $1.\underline{0}09$

\_\_\_\_\_

17.  $33.\underline{2}55$

\_\_\_\_\_

18.  $1.024\underline{7}9$

\_\_\_\_\_

19.  $3.\underline{0}42$

\_\_\_\_\_

20.  $8.1\underline{9}19$

\_\_\_\_\_

21.  $50.\underline{9}6$

\_\_\_\_\_

22.  $7\underline{1}.6$

\_\_\_\_\_

Marc said that to the nearest dollar, he spent \$15.00 on a CD.  
Find each answer.

23. What is the least amount that Marc could have spent?

\_\_\_\_\_

24. What is the greatest amount that Marc could have spent?

\_\_\_\_\_

**TEST PREP**

25. Which shows 1.356 rounded to the nearest tenth?

A 1.3

C 1.35

*Skill 4*

B 1.4

D 1.36

26. Which is 0.06 written as a fraction?

F  $\frac{6}{1,000}$

H  $\frac{6}{100}$

*Skill 2*

G  $\frac{6}{10}$

J  $\frac{100}{6}$



## Mixed Review for Section A

Why is a pencil like a riddle?

To find out why, find the answer to each exercise at the bottom of the page and write the letter on the blank above the answer.

- G 1. Write eight tenths as a decimal. \_\_\_\_\_
- T 2. Round 9.83 to the nearest whole number. \_\_\_\_\_
- W 3.  $10.33 > \underline{\hspace{1cm}}$ . Which replaces the blank: 10.3, 10.333, or 10.4?
- N 4. Write  $4\frac{5}{10}$  as a decimal. \_\_\_\_\_
- N 5. Estimate  $2.225 - 0.66$ . Round to the nearest whole number. \_\_\_\_\_
- O 6. \_\_\_\_\_  $< 1.06$ . Which replaces the blank: 1.6, 1.066, or 1.006?
- D 7. Round 0.942 to the nearest hundredth. \_\_\_\_\_
- O 8.  $0.34 + 1.26 = \underline{\hspace{1cm}}$
- T 9. Write thirty-seven hundredths as a decimal. \_\_\_\_\_
- O 10. Write  $\frac{942}{1,000}$  as a decimal. \_\_\_\_\_
- I 11. Round 4.55 to the nearest tenth. \_\_\_\_\_
- T 12.  $2.88 + 2.32 = \underline{\hspace{1cm}}$
- A 13.  $16.45 + 4.05 = \underline{\hspace{1cm}}$
- U 14. Estimate  $36.87 - 17.4$ . Round to the nearest whole number. \_\_\_\_\_
- O 15. \_\_\_\_\_  $> 0.44$ . Which replaces the blank: 0.4, 0.404, or 0.444?
- H 16. Write 0.080 in hundredths. \_\_\_\_\_
- I 17. Write  $\frac{37}{1,000}$  as a decimal. \_\_\_\_\_
- O 18. Estimate  $178.55 - 79.2$ . Round to the nearest whole number. \_\_\_\_\_
- P 19.  $3.42 - 2.9 = \underline{\hspace{1cm}}$
- S 20.  $6.3 + 3.12 = \underline{\hspace{1cm}}$
- I 21. Write four and forty-four hundredths as a decimal. \_\_\_\_\_
- T 22.  $6 - 3.995 = \underline{\hspace{1cm}}$

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 4.6

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 2.005

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 9.42

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 4.5

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 1.6

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 0.8

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 0.942

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 100

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 0.94

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 10.3

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 0.037

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 10

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 0.08

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 0.444

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 20

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 0.37

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 20.50

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 0.52

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 1.006

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 4.44

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 1

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 5.2