



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.

1. The tenths digit is _____.

2. The digit to the right of the tenths digit is _____.

3. Do you round up or down? Why? _____

4. 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. $42.\underline{4}$

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. $0.6\underline{0}7$

16. $1.0\underline{0}9$

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?



25. Which shows 1.356 rounded to the nearest tenth?

A 1.3

C 1.35

B 1.4

D 1.36

Skill 4

26. Which is 0.06 written as a fraction?

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

H $\frac{6}{100}$

G $\frac{6}{10}$

J $\frac{100}{6}$

Skill 2