

Boost Free Lessons - Year 6 Maths

Lesson 11: Rounding Decimals

Name: _____ Grade: _____ Date: _____

Worked Example 1

Round 6.47 to one decimal place.

1. One decimal place means you keep one digit after the point, so you keep the **tenths**.
2. Underline the tenths digit, which is 4, then look at the digit **immediately after** it.
3. That digit is 7. Because 7 is 5 or more, you round the tenths **up**.
4. The 4 becomes 5, and everything after it is dropped.

6.47 rounded to 1 decimal place is 6.5

Worked Example 2

Round 12.803 to two decimal places.

1. Two decimal places means keeping the **hundredths**, which is the 0.
2. Look at the digit immediately after it, which is 3.
3. Because 3 is less than 5, the hundredths digit stays as it is.
4. Keep the 0 and drop the 3. The zero must stay, because it holds the place.

12.803 rounded to 2 decimal places is 12.80

Remember: Find the place you are keeping, then look at the **next digit only**. If it is 5 or more, round up. If it is less than 5, leave it. Never look further along.



Question 1: Round each number as instructed.

1. Round 3.62 to 1 decimal place.
2. Round 5.48 to 1 decimal place.
3. Round 0.95 to 1 decimal place.
4. Round 7.24 to 1 decimal place.
5. Round 2.317 to 2 decimal places.
6. Round 8.596 to 2 decimal places.
7. Round 4.7 to the nearest whole number.
8. Round 19.5 to the nearest whole number.



Question 2: Answer the following.

1. Round 0.0649 to 2 decimal places.
2. Round 15.9812 to 3 decimal places.
3. Round 9.96 to 1 decimal place.
4. Round 249.5 to the nearest ten.
5. Which digit do you look at when rounding to 2 decimal places?
6. Why does 12.80 keep its zero rather than being written as 12.8?



Question 3: Answer the following questions.

1. A race time was 12.847 seconds. Round it to 2 decimal places.

2. A parcel weighs 3.462 kg. Round it to 1 decimal place.

3. A shop price is \$24.678. Round it to the nearest cent.

4. A plank is 2.96 m long. Round it to 1 decimal place.

5. Explain why rounding 4.449 to 1 decimal place gives 4.4 and not 4.5.





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Answers: Rounding Decimals**Question 1**

1. 3.6
2. 5.5
3. 1.0
4. 7.2
5. 2.32
6. 8.60
7. 5
8. 20

Question 2

1. 0.06
2. 15.981
3. 10.0
4. 250
5. The third decimal place, the thousandths digit.
6. The zero shows the answer is correct to two decimal places, so the accuracy is clear.

Question 3

1. 12.85 seconds
2. 3.5 kg
3. \$24.68
4. 3.0 m
5. You look only at the digit immediately after the tenths, which is 4. The 9 further along does not count, so the tenths digit stays as 4.

