

Rounding Decimals

Name: _____

Date: _____

Score: _____ / 18

Quick Review and Helpful Hints

To round a decimal, first find the place you are rounding to. Then look at the single digit *just to its right*: if that digit is 5 or more, round the place up by one; if it is 4 or less, leave it as is. Finally, drop every digit after the rounding place.

Q Example: Round 3.276 to the nearest hundredth. **Work:** The hundredths digit is 7. Look one place to its right: that digit is 6, and $6 \geq 5$, so round the 7 up to 8 and drop the rest. **Answer:** 3.28



3.276 sits past the halfway mark, so it rounds up to 3.28.

Practice Problems

Round each decimal as directed.

1. Round 4.62 to the nearest tenth. _____

2. Round 7.38 to the nearest tenth. _____

3. Round 0.451 to the nearest hundredth. _____

4. Round 12.95 to the nearest tenth. _____

5. Round 5.864 to the nearest hundredth. _____

6. Round 9.97 to the nearest tenth. _____

7. Round 3.142 to the nearest tenth. _____

8. Round 0.8351 to the nearest thousandth. _____

9. Round 6.255 to the nearest hundredth. _____

10. Round 14.49 to the nearest whole number. _____

11. Round 2.501 to the nearest whole number. _____

12. Round 0.0648 to the nearest hundredth. _____

13. Round 88.88 to the nearest tenth. _____

14. Round 1.045 to the nearest hundredth. _____

Word Problems

15. A gas pump reads \$3.479 per gallon. Rounded to the nearest cent, what is the price? _____

16. A runner's time is recorded as 10.473 seconds. Round it to the nearest hundredth of a second. _____

17. A board measures 2.36 meters. Round its length to the nearest tenth of a meter. _____

18. A scale reads 5.55 pounds. Round the weight to the nearest tenth of a pound. _____



Answer Keys

1. 4.6

2. 7.4

3. 0.45

4. 13.0

5. 5.86

6. 10.0

7. 3.1

8. 0.835

9. 6.26

10. 14

11. 3

12. 0.06

13. 88.9

14. 1.05

15. \$3.48

16. 10.47

17. 2.4

18. 5.6

Step-by-Step Explanations

1. Focus on the tenths digit 6, then peek at the digit right after it, 2. Since $2 < 5$, leave the 6 alone: 4.6.

2. The tenths digit is 3 and the digit after it is 8. Because $8 \geq 5$, round the 3 up to 4, giving 7.4.

3. The hundredths digit is 5, and the next digit is 1. Since $1 < 5$, keep it as is: 0.45.

4. Round the tenths digit 9: the digit after is $5 \geq 5$, so round up. The 9 rolls over to 10, carrying into the ones to give 13.0.

5. Look at the hundredths digit 6; the next digit is $4 < 5$, so it stays: 5.86.

6. The tenths digit is 9 and the next digit $7 \geq 5$, so round up. That makes 9.9 become 10.0 as the carry ripples through.

7. The tenths digit 1 is followed by $4 < 5$, so leave the tenths digit unchanged: 3.1.

8. The thousandths digit is 5, and the digit after it is $1 < 5$, so keep it: 0.835.

9. The hundredths digit is 5 and the next digit is $5 \geq 5$, so round up to 6.26.

10. Rounding to a whole number, look only at the tenths digit. Since $4 < 5$, round down to 14; the later 9 does not affect this rounding place.

11. Check the tenths digit 5. Since $5 \geq 5$, round up from 2 to 3.

12. The hundredths digit is 6, and the next digit $4 < 5$, so it stays: 0.06.

13. The tenths digit 8 is followed by $8 \geq 5$, so round up to 88.9.

14. The hundredths digit is 4, and the next digit $5 \geq 5$, so round up to 1.05.

15. "Nearest cent" means the hundredths place. In 3.479 the hundredths digit is 7, and the next digit $9 \geq 5$, so round up to \$3.48.

16. Round 10.473 to the hundredths: that digit is 7, and the digit after it is $3 < 5$, so it stays at 10.47 seconds.

17. Round 2.36 to the tenths: the tenths digit 3 is followed by $6 \geq 5$, so round up to 2.4 meters.

18. Round 5.55 to the tenths: the 5 in the tenths place sees another $5 \geq 5$, so round up to 5.6 pounds.



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