

Decimal Decision Time

Use the next digit to round decimals accurately.

GRADE 5 • TEKS 5.2.C

5.2.C "round decimals to tenths or hundredths."

NAME _____

DATE _____

LOOK NEXT DOOR

To round to tenths, look at the hundredths digit. To round to hundredths, look at the thousandths digit. If the digit you look at is 5 or more, increase the rounding digit by 1. If it is 4 or less, keep the rounding digit the same.

WORKED EXAMPLE

Round 14.376 to the nearest hundredth.

1. The hundredths digit is 7.
2. Look at the thousandths digit, 6.
3. Because 6 is 5 or more, increase 7 to 8.
4. Keep the digits through the hundredths place.

Answer: 14.38

PRACTICE 6 problems

1 Round 8.47 to the nearest tenth.

ANSWER _____

2 Round 3.162 to the nearest hundredth.

ANSWER _____

3 Round 19.85 to the nearest tenth.

ANSWER _____

4 Round 6.294 to the nearest hundredth.

ANSWER _____

5 Round 0.768 to the nearest tenth.

ANSWER _____

6 Round 12.995 to the nearest hundredth.

ANSWER _____

APPLY IT Show your work

- 1** Ava walked 2.684 miles during a charity walk. Round her distance to the nearest hundredth of a mile.

WORK SPACE

ANSWER _____

- 2** Diego finished a video game race in 47.56 seconds. Round his time to the nearest tenth of a second.

WORK SPACE

ANSWER _____

CHALLENGE One step up

Round 9.946 to the nearest tenth and to the nearest hundredth. Explain why the two rounded numbers are different.

WORK SPACE AND ANSWER

PART 1 • PRACTICE

#	PROBLEM	ANSWER
1	Round 8.47 to the nearest tenth.	8.5
2	Round 3.162 to the nearest hundredth.	3.16
3	Round 19.85 to the nearest tenth.	19.9
4	Round 6.294 to the nearest hundredth.	6.29
5	Round 0.768 to the nearest tenth.	0.8
6	Round 12.995 to the nearest hundredth.	13.00

PART 2 • APPLY IT

1. **2.68 miles** The hundredths digit is 8, and the thousandths digit is 4. Keep the hundredths digit the same.
2. **47.6 seconds** The tenths digit is 5, and the hundredths digit is 6. Increase the tenths digit by 1.

CHALLENGE

Nearest tenth: 9.9. Nearest hundredth: 9.95. To round to tenths, look at the hundredths digit, 4, so the tenths digit stays 9. To round to hundredths, look at the thousandths digit, 6, so the hundredths digit increases from 4 to 5.

Accept trailing zeros when they show the requested place value, such as 13.00 for the nearest hundredth. For the challenge, accept equivalent explanations that correctly identify the digit used to decide each rounding.