LESSON MAKER PRO

Decimal Rounding Route

Use place value to choose the closest value.

GRADE 5 · 5.NBT.A.4

CCSS.Math.Content.5.NBT.A.4 "Use place value understanding to round decimals to any place."

NAME _____ DATE _____

LOOK NEXT DOOR

Find the place you are rounding to, then look at the digit immediately to its right. If that digit 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 12.364 to the nearest hundredth.

1. The hundredths digit is 6.
2. The digit to its right is 4.
3. Because 4 is less than 5, keep the 6 and drop the 4.

Answer: 12.36

PRACTICE 6 problems

1 Round 47.286 to the nearest tenth.

ANSWER _____

2 Round 9.745 to the nearest hundredth.

ANSWER _____

3 Round 83.51 to the nearest whole number.

ANSWER _____

4 Round 6.995 to the nearest tenth.

ANSWER _____

5 Round 0.0847 to the nearest hundredth.

ANSWER _____

6 Round 154.499 to the nearest whole number.

ANSWER _____

APPLY IT Show your work

1 Jordan ran 2.786 kilometers during a charity fun run. Round the distance to the nearest hundredth of a kilometer.

WORK SPACE

ANSWER _____

2 A new game uses 18.452 gigabytes of storage. Round the storage amount to the nearest tenth of a gigabyte.

WORK SPACE

ANSWER _____

CHALLENGE One step up

A student says that 4.250 rounds to 4.3 when rounded to the nearest tenth. Is the student correct? Explain your reasoning.

WORK SPACE AND ANSWER

ANSWER KEY

Decimal Rounding Route

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PART 1 · PRACTICE

#	PROBLEM	ANSWER
1	Round 47.286 to the nearest tenth.	**47.3**
2	Round 9.745 to the nearest hundredth.	**9.75**
3	Round 83.51 to the nearest whole number.	**84**
4	Round 6.995 to the nearest tenth.	**7.0**
5	Round 0.0847 to the nearest hundredth.	**0.08**
6	Round 154.499 to the nearest whole number.	**154**

PART 2 · APPLY IT

1. **2.79 kilometers** The hundredths digit is 8, and the thousandths digit is 6, so round the 8 up to 9.
2. **18.5 gigabytes** The tenths digit is 4, and the hundredths digit is 5, so round the 4 up to 5.

CHALLENGE

Yes. The tenths digit is 2, and the hundredths digit is 5. Round the 2 up to 3, so 4.250 rounds to 4.3.

Accept equivalent decimal forms, such as 7 for 7.0, if the student clearly rounded to the requested place. For the challenge, accept explanations that identify the tenths digit and the hundredths digit of 5.