LESSON MAKER PRO

Decimal Landmarks

Use number lines and benchmarks to estimate decimals.

GRADE 5 · 5.NOS.A.3.b

5.NOS.A.3.b "Estimate decimal quantities by reasoning about their location on a number line, their relationship to benchmark numbers (e.g. 0, 0.25, 0.5, 0.75, 1) and rounding to any place."

NAME _____ DATE _____

FIND THE NEAREST MARK

To round a decimal, find the two place-value marks on either side of it. Choose the nearer mark. If the decimal is exactly halfway, choose the greater mark.

WORKED EXAMPLE

Round point A to the nearest tenth.



1. A is between 0.6 and 0.7.
2. A is nearer 0.7.

Answer: 0.7

PRACTICE 4 problems

1 Round 4.36 to the nearest tenth.

ANSWER _____

2 Round 7.842 to the nearest hundredth.

ANSWER _____

3 Which benchmark is closest to 0.18: 0, 0.25, 0.5, 0.75, or 1?

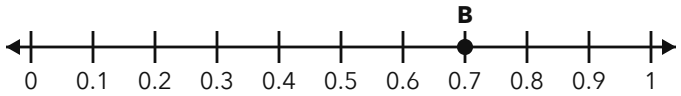
ANSWER _____

4 Round 19.65 to the nearest whole number.

ANSWER _____

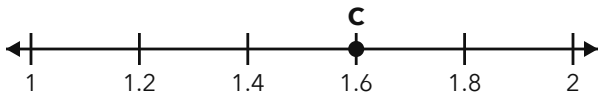
APPLY IT Show your work

1 Point B shows your progress through a game. Which quarter benchmark is closest to B?



ANSWER _____

2 Point C shows a jump length in meters. Round the length to the nearest whole meter.



ANSWER _____

CHALLENGE One step up

Write a decimal with three decimal places that rounds to 2.4 to the nearest tenth and 2.38 to the nearest hundredth. Explain your choice.

WORK SPACE AND ANSWER

ANSWER KEY

Decimal Landmarks

PART 1 · PRACTICE

#	PROBLEM	ANSWER
1	Round 4.36 to the nearest tenth.	**4.4**
2	Round 7.842 to the nearest hundredth.	**7.84**
3	Which benchmark is closest to 0.18: 0, 0.25, 0.5, 0.75, or 1?	**0.25**
4	Round 19.65 to the nearest whole number.	**20**

PART 2 · APPLY IT

1. **0.75** B is at 0.7, which is 0.05 from 0.75 and 0.2 from 0.5.
2. **2 meters** C is at 1.6 meters, which is closer to 2 meters than to 1 meter.

CHALLENGE

2.381. It is closer to 2.38 than 2.39, and closer to 2.4 than 2.3.

For the challenge, accept any three-place decimal from 2.375 through 2.384 with a correct explanation.