LESSON MAKER PRO

Find the Nearest

Estimate with benchmarks and rounding

GRADE 6 · 6.NOS.C.6.a

6.NOS.C.6.a "Estimate quantities by reasoning about their location on a number line, their relationship to benchmark numbers, and by rounding."

NAME _____ DATE _____

THE BIG IDEA

Find the benchmarks on either side of a number. Estimate by choosing the closer benchmark, or round to the place the question names.

WORKED EXAMPLE

About what multiple of 10 is E?



1. E is between 30 and 40.
2. E is closer to 40.

Answer: 40

PRACTICE 4 problems

1 Round 62 to the nearest 10.

ANSWER _____

2 Round 148 to the nearest 100.

ANSWER _____

3 Round 5.68 to the nearest whole number.

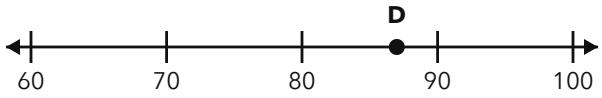
ANSWER _____

4 Which benchmark is 7/10 closest to: 0, 1/2, or 1?

ANSWER _____

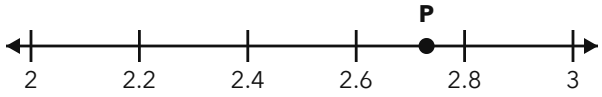
APPLY IT Show your work

1 A game shows D megabytes downloaded. About how many megabytes is that, to the nearest 10?



ANSWER _____

2 A playlist lasts P hours. About how many whole hours is that?



ANSWER _____

CHALLENGE One step up

A runner rounds 346 m to 400 m. Is that correct to the nearest 100 m? Explain.

WORK SPACE AND ANSWER

ANSWER KEY

Find the Nearest

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PART 1 · PRACTICE

#	PROBLEM	ANSWER
1	Round 62 to the nearest 10.	**60**
2	Round 148 to the nearest 100.	**100**
3	Round 5.68 to the nearest whole number.	**6**
4	Which benchmark is 7/10 closest to: 0, 1/2, or 1?	**1/2**

PART 2 · APPLY IT

1. **90 megabytes** D is between 80 and 90 and is closer to 90.
2. **3 hours** P is closer to 3 hours than to 2 hours.

CHALLENGE

No. 346 is 46 m from 300 and 54 m from 400, so it rounds to 300 m.

Accept explanations that correctly identify the closer benchmark. In the challenge, students may compare 346 with the midpoint, 350, instead of finding both distances.