LESSON MAKER PRO

Decimal Estimate Detective

Round first, then add or subtract.

GRADE 5 · 5.NOS.B.6.a

5.NOS.B.6.a "Apply estimation strategies to estimate sums and differences of decimals."

NAME _____ DATE _____

ROUND, THEN ESTIMATE

To estimate a sum or difference, round each decimal to the place named in the question. Then add or subtract the rounded numbers. Your result is an estimate, not an exact total.

WORKED EXAMPLE

Estimate 12.36 + 4.78 by rounding each number to the nearest tenth.

1. 12.36 rounds to 12.4.
2. 4.78 rounds to 4.8.
3. Add: 12.4 + 4.8 = 17.2.

Answer: About 17.2

PRACTICE 6 problems

1 Estimate 7.83 + 5.26. Round each number to the nearest whole number.

ANSWER _____

2 Estimate 19.48 - 6.72. Round each number to the nearest whole number.

ANSWER _____

3 Estimate 3.19 + 8.64. Round each number to the nearest whole number.

ANSWER _____

4 Estimate 15.46 + 2.83. Round each number to the nearest tenth.

ANSWER _____

5 Estimate 20.74 - 7.28. Round each number to the nearest tenth.

ANSWER _____

6 Estimate 9.96 - 4.37. Round each number to the nearest tenth.

ANSWER _____

APPLY IT Show your work

1 At a school snack stand, juice sales are $18.64 and fruit sales are $7.31. About how much money did the stand make from these two items? Round each amount to the nearest dollar.

WORK SPACE

ANSWER _____

2 You have $25.00 for a class party and spend $8.67 on decorations. About how much money is left? Round each amount to the nearest ten cents.

WORK SPACE

ANSWER _____

CHALLENGE One step up

Estimate 29.76 + 6.28 - 11.43 by rounding each number to the nearest tenth. Write one sentence explaining how you found your estimate.

WORK SPACE AND ANSWER

ANSWER KEY

Decimal Estimate Detective

GRADE 5 · 5.NOS.B.6.a

PART 1 · PRACTICE

#	PROBLEM	ANSWER
1	Estimate 7.83 + 5.26. Round each number to the nearest whole number.	**About 13**
2	Estimate 19.48 - 6.72. Round each number to the nearest whole number.	**About 12**
3	Estimate 3.19 + 8.64. Round each number to the nearest whole number.	**About 12**
4	Estimate 15.46 + 2.83. Round each number to the nearest tenth.	**About 18.3**
5	Estimate 20.74 - 7.28. Round each number to the nearest tenth.	**About 13.4**
6	Estimate 9.96 - 4.37. Round each number to the nearest tenth.	**About 5.6**

PART 2 · APPLY IT

1. **About $26** Round $18.64 to $19 and $7.31 to $7. Add $19 + $7 = $26.
2. **About $16.30** Round $25.00 to $25.00 and $8.67 to $8.70. Subtract $25.00 - $8.70 = $16.30.

CHALLENGE

29.8 + 6.3 - 11.4 = 24.7, so the estimate is 24.7. I rounded each number to the nearest tenth before adding and subtracting.

Accept answers with or without the word “about.” For the challenge, accept an explanation that shows each number was rounded to the nearest tenth before calculating.