Rounding Multi-Digit Whole Numbers

Apply the skill to decisions and designs

Name _____ **Date** _____ **Score** _____ / 8

QUICK REVIEW

Find the two neighboring multiples of the rounding place. Choose the nearer one; a halfway value rounds up. $6{,}450$ to the nearest hundred is $6{,}500$ because it is halfway between $6{,}400$ and $6{,}500$.

Worked example

Round $37{,}462$ to the nearest thousand.

1. The neighboring multiples of $1,000$ are $37,000$ and $38,000$.
2. The distances are $37,462 - 37,000 = 462$ and $38,000 - 37,462 = 538$.
3. Choose $37,000$ because it is closer.
Answer: $37,000$.

Practice Problems

Show your thinking.

1. About how many visitors is $126{,}480$, rounded to the nearest thousand?

2. A route is $7{,}842$ m. Report it to the nearest hundred meters.

3. An estimate sign rounds $458{,}621$ items to ten thousands. What should it show?

4. A counter shows $69{,}215$. Give its nearest-ten display.

5. A sign rounds $249{,}900$ to $300{,}000$ at the nearest hundred thousand. Repair it.

6. Design a whole-number attendance above $5{,}000$ that rounds down to $5{,}000$ to the nearest thousand.

7. A purchase needs exactly $4{,}460$ bolts. Is the rounded nearest-thousand count enough to order?

8. An exact $78{,}500$-m route needs a nearest-thousand label. Write it.

Answer Key

1. $126,000$.
2. $7,800$.
3. $460,000$.
4. $69,220$.
5. $200{,}000$.
6. For example, $5{,}300$.
7. No; $4{,}000$ is 460 short.
8. $79,000$.

Step-by-Step Solutions

Follow each calculation, then check your own work.

Problem 1

1. The neighboring multiples of $1,000$ are $126,000$ and $127,000$.
2. The distances are $126,480 - 126,000 = 480$ and $127,000 - 126,480 = 520$.
3. Choose $126,000$ because it is closer.

Problem 2

1. The neighboring multiples of 100 are $7,800$ and $7,900$.
2. The distances are $7,842 - 7,800 = 42$ and $7,900 - 7,842 = 58$.
3. Choose $7,800$ because it is closer.

Problem 3

1. The neighboring multiples of $10,000$ are $450,000$ and $460,000$.
2. The distances are $458,621 - 450,000 = 8,621$ and $460,000 - 458,621 = 1,379$.
3. Choose $460,000$ because it is closer.

Problem 4

1. The neighboring multiples of 10 are $69,210$ and $69,220$.
2. The distances are $69,215 - 69,210 = 5$ and $69,220 - 69,215 = 5$.
3. This is exactly halfway; round up to $69,220$.

Problem 5

1. The halfway point is $250{,}000$.
2. $249{,}900$ is 100 below halfway.
3. Distances $49{,}900$ and $50{,}100$ favor $200{,}000$.

Problem 6

1. Numbers from $5{,}001$ through $5{,}499$ meet both conditions.
2. Choose $5{,}300$, which is 300 above $5{,}000$.
3. It is 700 below $6{,}000$, so $5{,}000$ is nearer.

Problem 7

1. $4{,}460$ rounds to $4{,}000$ because $460 < 540$.
2. $4{,}460 - 4{,}000 = 460$ bolts would be missing.
3. Use the exact need, not the rounded estimate, for the order.

Problem 8

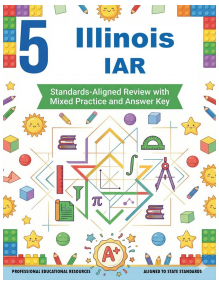
1. The neighboring multiples of $1,000$ are $78,000$ and $79,000$.
2. The distances are $78,500 - 78,000 = 500$ and $79,000 - 78,500 = 500$.
3. This is exactly halfway; round up to $79,000$.

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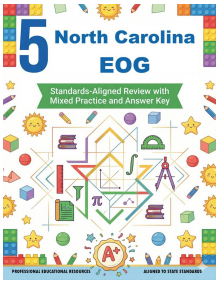
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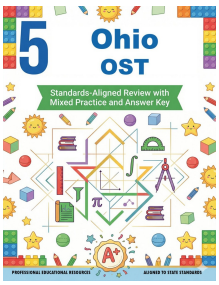
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