Rounding Multi-Digit Whole Numbers

Spot mistakes, reason, and work backward

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. Explain which thousand $99{,}500$ rounds to.

2. Choose the nearer hundred thousand for $265{,}499$.

3. Use distances to round $60{,}048$ to the nearest hundred.

4. Find the halfway decision when rounding $83{,}765$ to tens.

5. A student rounds $15{,}451$ to $15{,}500$, then to $16{,}000$. Round the original number directly to thousands.

6. Find a whole number greater than $28{,}000$ that rounds to $30{,}000$ to the nearest ten thousand.

7. Can two different whole numbers both round to $7{,}200$ to the nearest hundred? Give examples.

8. A supply estimate must use thousands. Round the actual count $48{,}503$.

Answer Key

1. $100,000$.
2. $300,000$.
3. $60,000$.
4. $83,770$.
5. $15{,}000$.
6. For example, $29{,}000$.
7. Yes: $7{,}180$ and $7{,}240$.
8. $49,000$.

Step-by-Step Solutions

Follow each calculation, then check your own work.

Problem 1

1. The neighboring multiples of $1,000$ are $99,000$ and $100,000$.
2. The distances are $99,500 - 99,000 = 500$ and $100,000 - 99,500 = 500$.
3. This is exactly halfway; round up to $100,000$.

Problem 2

1. The neighboring multiples of $100,000$ are $200,000$ and $300,000$.
2. The distances are $265,499 - 200,000 = 65,499$ and $300,000 - 265,499 = 34,501$.
3. Choose $300,000$ because it is closer.

Problem 3

1. The neighboring multiples of 100 are $60,000$ and $60,100$.
2. The distances are $60,048 - 60,000 = 48$ and $60,100 - 60,048 = 52$.
3. Choose $60,000$ because it is closer.

Problem 4

1. The neighboring multiples of 10 are $83,760$ and $83,770$.
2. The distances are $83,765 - 83,760 = 5$ and $83,770 - 83,765 = 5$.
3. This is exactly halfway; round up to $83,770$.

Problem 5

1. Direct distances are $15{,}451 - 15{,}000 = 451$ and $16{,}000 - 15{,}451 = 549$.
2. $451 < 549$, so $15{,}000$ is nearer.
3. The intermediate rounding changed the halfway decision; use the original number.

Problem 6

1. The rounding interval is $25{,}000$ through $34{,}999$.
2. $29{,}000 > 28{,}000$ lies inside it.
3. Distances are $9{,}000$ to $20{,}000$ and $1{,}000$ to $30{,}000$, so it rounds to $30{,}000$.

Problem 7

1. $7{,}180$ is 20 below $7{,}200$.
2. $7{,}240$ is 40 above $7{,}200$.
3. Both are within 50 of $7{,}200$, so both round there.

Problem 8

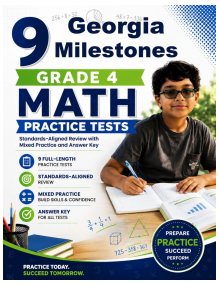
1. The neighboring multiples of $1,000$ are $48,000$ and $49,000$.
2. The distances are $48,503 - 48,000 = 503$ and $49,000 - 48,503 = 497$.
3. Choose $49,000$ because it is closer.

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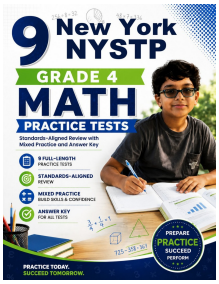
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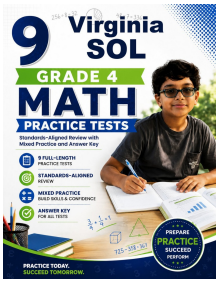
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