Rounding Multi-Digit Whole Numbers

Explore ideas and representations

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. Round $18{,}674$ to the nearest hundred.

2. Round $46{,}350$ to the nearest thousand.

3. Round $72{,}815$ to the nearest ten.

4. Round $348{,}601$ to the nearest ten thousand.

5. Fix: $42{,}749$ rounds to $43{,}000$ to the nearest hundred.

6. Give the least and greatest whole numbers that round to $3{,}600$ to the nearest hundred.

7. Round $8{,}450$ to the nearest hundred and nearest thousand. Are the results the same?

8. A school has $19{,}876$ library books. Estimate to the nearest thousand.

Answer Key

1. $18,700$.
2. $46,000$.
3. $72,820$.
4. $350,000$.
5. $42{,}700$.
6. $3{,}550$ and $3{,}649$.
7. $8{,}500$ and $8{,}000$; different.
8. $20,000$.

Step-by-Step Solutions

Follow each calculation, then check your own work.

Problem 1

1. The neighboring multiples of 100 are $18,600$ and $18,700$.
2. The distances are $18,674 - 18,600 = 74$ and $18,700 - 18,674 = 26$.
3. Choose $18,700$ because it is closer.

Problem 2

1. The neighboring multiples of $1,000$ are $46,000$ and $47,000$.
2. The distances are $46,350 - 46,000 = 350$ and $47,000 - 46,350 = 650$.
3. Choose $46,000$ because it is closer.

Problem 3

1. The neighboring multiples of 10 are $72,810$ and $72,820$.
2. The distances are $72,815 - 72,810 = 5$ and $72,820 - 72,815 = 5$.
3. This is exactly halfway; round up to $72,820$.

Problem 4

1. The neighboring multiples of $10,000$ are $340,000$ and $350,000$.
2. The distances are $348,601 - 340,000 = 8,601$ and $350,000 - 348,601 = 1,399$.
3. Choose $350,000$ because it is closer.

Problem 5

1. The neighboring hundreds are $42{,}700$ and $42{,}800$.
2. $42{,}749 - 42{,}700 = 49$; $42{,}800 - 42{,}749 = 51$.
3. $49 < 51$, so choose $42{,}700$; $43{,}000$ uses the wrong place.

Problem 6

1. The lower halfway point is $3{,}600 - 50 = 3{,}550$, which rounds up.
2. The next halfway point is $3{,}600 + 50 = 3{,}650$, which rounds to $3{,}700$.
3. So the last included whole number is $3{,}650 - 1 = 3{,}649$.

Problem 7

1. For hundreds, $8{,}450$ is halfway, so it becomes $8{,}500$.
2. For thousands, distances are 450 to $8{,}000$ and 550 to $9{,}000$.
3. $450 < 550$, so the nearest thousand is $8{,}000$.

Problem 8

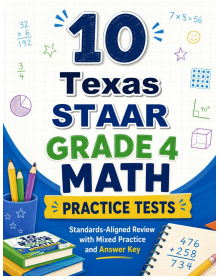
1. The neighboring multiples of $1,000$ are $19,000$ and $20,000$.
2. The distances are $19,876 - 19,000 = 876$ and $20,000 - 19,876 = 124$.
3. Choose $20,000$ because it is closer.

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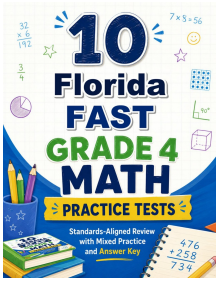
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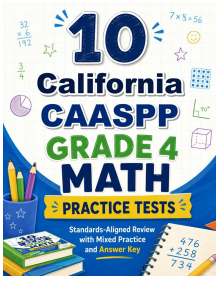
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