Rounding Whole Numbers

Spot mistakes, reason, and work backward

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

QUICK REVIEW

Find the two neighboring multiples and their midpoint. 243 is between 240 and 250; the midpoint is 245, so 243 rounds to 240. Halfway values round up: 250 rounds to 300 to the nearest 100. A rounded count is an estimate.

Worked example

Which multiple of 10 is closer to 67? Use distances.

1. Distance down: $67 - 60 = 7$. Distance up: $70 - 67 = 3$.

2. The smaller distance is 3, so 70 is closer.

Answer: 70.

Practice Problems

Show your thinking.

1. Teo rounds 435 to 430 to the nearest 10. Correct him and explain the midpoint test.

2. Find the smallest whole number that round to 600 to the nearest 100.

3. Find the greatest whole number that round to 370 to the nearest 10.

4. Find the range of whole numbers that round to 800 to the nearest 100.

5. Teo rounds 849 to 900 to the nearest 100. Correct him and explain the midpoint test.

6. Find the smallest whole number that round to 470 to the nearest 10.

7. Find the greatest whole number that round to 500 to the nearest 100.

8. Find the range of whole numbers that round to 30 to the nearest 10.

Answer Key

1. 440, not 430.
2. 550.
3. 374.
4. 750 through 849.
5. 800, not 900.
6. 465.
7. 549.
8. 25 through 34.

Step-by-Step Solutions

Follow each calculation, then check your own work.

Problem 1

1. The bounding multiples are 430 and 440, halfway at 435.
2. 435 is at or above 435; it rounds to 440.

Problem 2

1. The lower halfway point is $600 - 50 = 550$; that tie rounds up to 600.
2. The next halfway point is $600 + 50 = 650$ and rounds up again, so the last allowed whole number is 649.

Problem 3

1. The lower halfway point is $370 - 5 = 365$; that tie rounds up to 370.
2. The next halfway point is $370 + 5 = 375$ and rounds up again, so the last allowed whole number is 374.

Problem 4

1. The lower halfway point is $800 - 50 = 750$; that tie rounds up to 800.
2. The next halfway point is $800 + 50 = 850$ and rounds up again, so the last allowed whole number is 849.

Problem 5

1. The bounding multiples are 800 and 900, halfway at 850.
2. 849 is below 850; it rounds to 800.

Problem 6

1. The lower halfway point is $470 - 5 = 465$; that tie rounds up to 470.
2. The next halfway point is $470 + 5 = 475$ and rounds up again, so the last allowed whole number is 474.

Problem 7

1. The lower halfway point is $500 - 50 = 450$; that tie rounds up to 500.
2. The next halfway point is $500 + 50 = 550$ and rounds up again, so the last allowed whole number is 549.

Problem 8

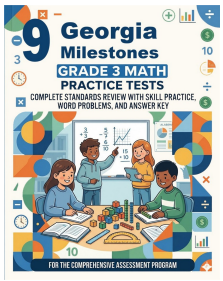
1. The lower halfway point is $30 - 5 = 25$; that tie rounds up to 30.
2. The next halfway point is $30 + 5 = 35$ and rounds up again, so the last allowed whole number is 34.

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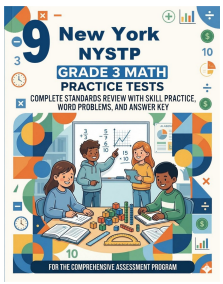
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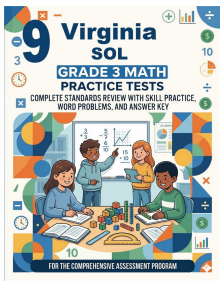
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