Rounding Whole Numbers

Apply the skill to decisions and designs

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. A library has 286 storybooks and 23 fact books. Estimate the total by rounding each to the nearest 10.

2. A sign should show about how many visitors came: 637. Write a report rounded to the nearest 100 and find how far it is from the exact count.

3. A bus has 70 seats. A group has 74 people. Rounding gives about 70 people. Does the estimate alone prove everyone fits? Use the exact count to decide.

4. Round 426 to the nearest 10 and the nearest 100. Keep the two results separate.

5. A sign should show about how many visitors came: 168. Write a report rounded to the nearest 10 and find how far it is from the exact count.

6. A library has 753 storybooks and 233 fact books. Estimate the total by rounding each to the nearest 100.

7. A bus has 40 seats. A group has 38 people. Rounding gives about 40 people. Does the estimate alone prove everyone fits? Use the exact count to decide.

8. Teo rounds 345 to 340 to the nearest 10. Correct him and explain the midpoint test.

Answer Key

1. About 310 books.
2. About 600 visitors; difference 37.
3. No, the estimate alone does not prove it. Exactly 4 people would lack seats.
4. Nearest 10: 430. Nearest 100: 400.
5. About 170 visitors; difference 2.
6. About 1000 books.
7. No, the estimate alone does not prove it. Everyone fits, with 2 seats left.
8. 350, not 340.

Step-by-Step Solutions

Follow each calculation, then check your own work.

Problem 1

1. Round each amount: $286 \to 290$ and $23 \to 20$.

2. Add the rounded amounts: $290 + 20 = 310$ books. This is an estimate, not the exact count.

Problem 2

1. 637 rounds to 600 because the halfway point between 600 and 700 is 650.

2. The exact and rounded counts differ by $637 - 600 = 37$ visitors.

Problem 3

1. The rounded count is only about 70, so it does not settle whether there are enough seats.

2. Use the exact values: $74 - 70 = 4$. The group is larger than capacity.

Problem 4

1. For tens, use 420 and 430, halfway 425; the result is 430.

2. For hundreds, use 400 and 500, halfway 450; the result is 400.

Problem 5

1. 168 rounds to 170 because the halfway point between 160 and 170 is 165.

2. The exact and rounded counts differ by $170 - 168 = 2$ visitors.

Problem 6

1. Round each amount: $753 \to 800$ and $233 \to 200$.

2. Add the rounded amounts: $800 + 200 = 1000$ books. This is an estimate, not the exact count.

Problem 7

1. The rounded count is only about 40, so it does not settle whether there are enough seats.

2. Use the exact values: $40 - 38 = 2$. The group does not exceed capacity.

Problem 8

1. The bounding multiples are 340 and 350, halfway at 345.

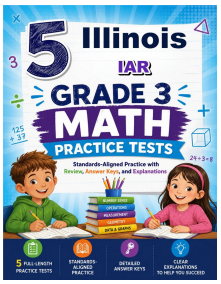
2. 345 is at or above 345; it rounds to 350.

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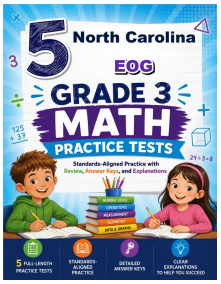
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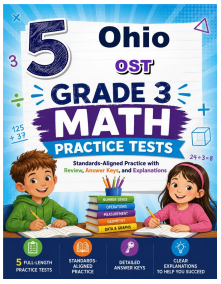
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