

Rounding Multi-Digit Numbers

Name: _____ Date: _____ Score: _____ / 24

Q Quick Review

Rounding gives a number that is close but easier to use. First find the place you are rounding to, then look at the digit just to its **right**. If that digit is 5 or more, **round up** — add one to the rounding place. If it is 4 or less, **round down** — keep the rounding place the same. Either way, every digit after the rounding place becomes a 0. For example, rounding 6,481 to the nearest hundred: the digit after the hundreds place is 8, which is 5 or more, so round up to 6,500.

◇ **Example:** Round 34,729 to the nearest thousand.

⇒ We are rounding to the thousands place, which has a 4 in it. Now look at the digit just to its right, in the hundreds place: that is a 7. Since 7 is 5 or more, we round up — the 4 becomes a 5. Then every digit after the thousands place turns into 0. So 34,729 rounds to 35,000.

Answer: 35,000

PRACTICE

Round each number to the place named.

- | | |
|--|---|
| 1. Round 73 to the nearest ten _____ | 12. Round 47,610 to the nearest thousand _____ |
| 2. Round 48 to the nearest ten _____ | 13. Round 31,500 to the nearest thousand _____ |
| 3. Round 264 to the nearest hundred _____ | 14. Round 68,200 to the nearest ten thousand _____ |
| 4. Round 512 to the nearest hundred _____ | 15. Round 42,900 to the nearest ten thousand _____ |
| 5. Round 1,350 to the nearest hundred _____ | 16. Round 85,050 to the nearest ten thousand _____ |
| 6. Round 2,749 to the nearest hundred _____ | 17. Round 149,800 to the nearest thousand _____ |
| 7. Round 6,820 to the nearest thousand _____ | 18. Round 263,400 to the nearest ten thousand _____ |
| 8. Round 4,199 to the nearest thousand _____ | 19. Round 376,500 to the nearest hundred thousand _____ |
| 9. Round 8,500 to the nearest thousand _____ | 20. Round 518,240 to the nearest hundred thousand _____ |
| 10. Round 12,640 to the nearest hundred _____ | |
| 11. Round 25,380 to the nearest thousand _____ | |

◆ Word Problems

21. A concert had 7,680 people in the audience. About how many people is that, rounded to the nearest thousand? _____
22. A school spent \$2,340 on new books. The principal wants to report the amount rounded to the nearest hundred dollars. What amount should the principal report? _____
23. A city's population is 48,500. A reporter rounds it to the nearest ten thousand for a headline. What number does the reporter use? _____
24. A toy company made 135,200 action figures this year. About how many is that, rounded to the nearest hundred thousand? _____



Answer Keys

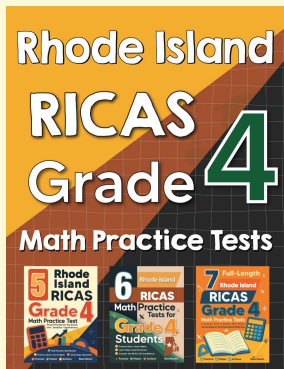
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|---|---|
| 1. <input type="text" value="70"/> | 13. <input type="text" value="32,000"/> |
| 2. <input type="text" value="50"/> | 14. <input type="text" value="70,000"/> |
| 3. <input type="text" value="300"/> | 15. <input type="text" value="40,000"/> |
| 4. <input type="text" value="500"/> | 16. <input type="text" value="90,000"/> |
| 5. <input type="text" value="1,400"/> | 17. <input type="text" value="150,000"/> |
| 6. <input type="text" value="2,700"/> | 18. <input type="text" value="260,000"/> |
| 7. <input type="text" value="7,000"/> | 19. <input type="text" value="400,000"/> |
| 8. <input type="text" value="4,000"/> | 20. <input type="text" value="500,000"/> |
| 9. <input type="text" value="9,000"/> | 21. <input type="text" value="8,000 people"/> |
| 10. <input type="text" value="12,600"/> | 22. <input type="text" value="\$2,300"/> |
| 11. <input type="text" value="25,000"/> | 23. <input type="text" value="50,000"/> |
| 12. <input type="text" value="48,000"/> | 24. <input type="text" value="100,000 action figures"/> |

Step-by-Step Explanations

- | | |
|---|---|
| 1. The ones digit is 3, which is 4 or less, so round down to 70. | 15. The thousands digit is 2, which is 4 or less, so round down to 40,000. |
| 2. The ones digit is 8, which is 5 or more, so round up to 50. | 16. The thousands digit is 5, so round up to 90,000. |
| 3. The tens digit is 6, which is 5 or more, so round up to 300. | 17. The hundreds digit is 8, which is 5 or more, so round up to 150,000. |
| 4. The tens digit is 1, which is 4 or less, so round down to 500. | 18. The thousands digit is 3, which is 4 or less, so round down to 260,000. |
| 5. The tens digit is 5, so round up: 1,350 becomes 1,400. | 19. The ten thousands digit is 7, which is 5 or more, so round up to 400,000. |
| 6. The tens digit is 4, which is 4 or less, so round down to 2,700. | 20. The ten thousands digit is 1, which is 4 or less, so round down to 500,000. |
| 7. The hundreds digit is 8, which is 5 or more, so round up to 7,000. | 21. We round to the thousands place. The hundreds digit is 6, which is 5 or more, so we round up to 8,000. |
| 8. The hundreds digit is 1, which is 4 or less, so round down to 4,000. | 22. We round to the hundreds place. The tens digit is 4, which is 4 or less, so we round down to \$2,300. |
| 9. The hundreds digit is exactly 5, so round up to 9,000. | 23. We round to the ten thousands place. The thousands digit is 8, which is 5 or more, so we round up to 50,000. |
| 10. The tens digit is 4, which is 4 or less, so round down to 12,600. | 24. We round to the hundred thousands place. The ten thousands digit is 3, which is 4 or less, so we round down to 100,000. |
| 11. The hundreds digit is 3, which is 4 or less, so round down to 25,000. | |
| 12. The hundreds digit is 6, which is 5 or more, so round up to 48,000. | |
| 13. The hundreds digit is exactly 5, so round up to 32,000. | |
| 14. The thousands digit is 8, which is 5 or more, so round up to 70,000. | |



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