

Chapter 1

1. **Write in numerals:** "Eight thousand, four hundred and twelve."
2. **Write in words:** 9053.
3. In the number 7249, which digit is in the hundreds place?
4. What is the value of the digit 6 in the number 4601?
5. Form the smallest 4-digit even number using all the digits: 3, 8, 0, and 5.
6. **Write in numerals:** "Sixty-two thousand, eight hundred and nineteen."
7. **Write in words:** 40 305.
8. In the number 81 492, what does the digit 8 stand for?
9. Fill in the missing number: $50\ 000 + 3\ 000 + \underline{\hspace{2cm}} + 70 + 4 = 53\ 974$.
10. What is the sum of the values of the two '4's in the number 42 410?
11. Compare the numbers using $>$, $<$, or $=$: $54\ 392$ $\underline{\hspace{2cm}}$ $54\ 932$.
12. Arrange the following numbers in **ascending order** (smallest to greatest): 81 045; 81 504; 80 451; 81 450
13. Arrange the following numbers in **descending order** (greatest to smallest): 39 201; 39 102; 93 201; 93 102
14. Which value is greater: *4 ten thousands and 12 hundreds* **OR** *41 thousands and 20 tens*?
15. I am a 5-digit number. My ten thousands digit is 6. My thousands digit is 2 less than my ten thousands digit. All my other digits are 0. What number am I?
16. What number is 1000 more than 49 500?
17. What number is 5 less than 20 000?
18. Complete the number pattern: 12 450, 12 550, 12 650, $\underline{\hspace{2cm}}$, 12 850.
19. Complete the number pattern: 88 000, 87 000, 86 000, $\underline{\hspace{2cm}}$, $\underline{\hspace{2cm}}$.

20. A factory has already produced 14 250 toys in total. It then produces 100 toys each day for the next 3 days. How many toys will the factory have produced altogether after these 3 days?

21. Round 3 486 to the nearest ten.

22. Round 12 942 to the nearest hundred.

23. Round 89 501 to the nearest thousand.

24. Use the $\approx$ symbol to show 45 699 rounded to the nearest thousand.
(e.g., 45 699 $\approx$ _____)

25. What is the greatest possible whole number that, when rounded to the nearest thousand, gives 50 000?

26. Estimate the sum of 4890 and 2105 by first rounding each number to the nearest thousand.

27. Estimate the difference between 15 400 and 6 800 by rounding each number to the nearest thousand.

28. A laptop costs \$2489 and a monitor costs \$315. Estimate the total cost by rounding each item to the nearest hundred first.

29. A stadium has 24 850 seats. During a match, there were 19 230 spectators. Estimate the number of empty seats by rounding to the nearest thousand.

30. **Explain your thinking:** A student rounded 34 999 to the nearest thousand and got 34 000. Another student rounded 35 000 to the nearest thousand and got 35 000. Why did adding just '1' to the original number change the rounded answer so much?

31. **Write in numerals:** "Three thousand, nine hundred and forty."

32. **Write in words:** 7018.

33. In the number 5821, which digit is in the tens place?

34. What is the value of the digit 9 in the number 2954?

35. Form the greatest 4-digit odd number using all the digits: 1, 6, 4, and 9.

36. **Write in numerals:** "Ninety-one thousand, two hundred and five."

37. **Write in words:** 50 042.

38. In the number 73 814, what does the digit 7 stand for?
39. Fill in the missing number: $80\,000 + \underline{\hspace{2cm}} + 600 + 5 = 84\,605$.
40. What is the difference between the values of the two '5's in the number 52 500?
41. Compare the numbers using $>$, $<$, or $=$: $76\,024$ $76\,204$.
42. Arrange the following numbers in **ascending order** (smallest to greatest): 45 102; 45 012; 45 210; 45 201
43. Arrange the following numbers in **descending order** (greatest to smallest): 60 899; 68 099; 60 989; 68 909
44. Which value is smaller: *65 thousands* **OR** *60 thousands and 50 hundreds*?
45. I am a 5-digit number between 30 000 and 40 000. My ones digit is the greatest 1-digit number. All my other digits are exactly the same as my ten thousands digit. What number am I?
46. What number is 10 000 more than 28 340?
47. What number is 100 less than 40 000?
48. Complete the number pattern: 56 200, 56 190, 56 180, , 56 160.
49. Complete the number pattern: 11 050, 11 100, 11 150, , .
50. A library has 25 000 books. If they buy 1000 new books every year, how many books will they have in total after 4 years?
51. Round 6594 to the nearest ten.
52. Round 81 450 to the nearest hundred.
53. Round 39 602 to the nearest thousand.
54. Use the $\approx$ symbol to show 72 099 rounded to the nearest hundred. (e.g., $72\,099 \approx$)
55. What is the smallest possible whole number that, when rounded to the nearest thousand, gives 80 000?
56. Estimate the sum of 6210 and 3895 by first rounding each number to the nearest thousand.

57. Estimate the difference between 24 500 and 12 350 by rounding each number to the nearest thousand.

58. A baker baked 1850 cookies on Saturday and 2120 cookies on Sunday. Estimate the total number of cookies baked over the weekend by first rounding each number to the nearest hundred.

59. The distance between City A and City B is 14 892 km. The distance between City C and City D is 9150 km. Estimate how much further it is from City A to City B than City C to City D by rounding to the nearest thousand.

60. **Explain your thinking:** Tom wanted to estimate $\$4450 + \3450 . He rounded both numbers to the nearest thousand and got $\$4000 + \$3000 = \$7000$. Is his estimated total greater than or less than the exact actual total? How do you know this without calculating the exact answer?



Answer Key

1. **8412**
2. **Nine thousand and fifty-three**
3. **2**
4. **600**
5. **3058**
6. **62 819**
7. **Forty thousand, three hundred and five**
8. **80 000 (or 8 ten thousands)**
9. **900**
10. **40 400 (40 000 + 400)**
11. **<**
12. **80 451; 81 045; 81 450; 81 504**
13. **93 201; 93 102; 39 201; 39 102**
14. **Neither, they are equal. (41 200 = 41 200)**
15. **64 000**
16. **50 500**
17. **19 995**
18. **12 750 (Rule: +100)**
19. **85 000, 84 000 (Rule: -1000)**
20. **14 550**
21. **3490**
22. **12 900**
23. **90 000**
24. **45 699 $\approx$ 46 000**
25. **50 499**
26. **5000 + 2000 = 7000**

27. **$15\ 000 - 7\ 000 = 8\ 000$**

28. **$\$2\ 500 + \$300 = \$2\ 800$**

29. **$25\ 000 - 19\ 000 = 6\ 000$**

30. *Sample answer:* When rounding to the nearest thousand, we look at the hundreds digit. In 34 999, the thousands digit is 4, but we don't round up until the hundreds digit is 5 or more (here it is 9, wait, actually 34 999 rounded to nearest thousand is 35 000. *Correction for teaching moment: The premise of the question challenges the student to spot the error. 34 999 rounded to the nearest thousand is actually 35 000, not 34 000, because the hundreds digit is 9.*

31. **3940**

32. **Seven thousand and eighteen**

33. **2**

34. **900**

35. **9641**

36. **91 205**

37. **Fifty thousand and forty-two**

38. **70 000 (or 7 ten thousands)**

39. **4000**

40. **49 500 (50 000 - 500)**

41. **<**

42. **45 012; 45 102; 45 201; 45 210**

43. **68 909; 68 099; 60 989; 60 899**

44. **Neither, they are equal. (65 000 = 65 000)**

45. **33 339**

46. **38 340**

47. **39 900**

48. **56 170 (Rule: -10)**

49. **11 200, 11 250 (Rule: +50)**

50. **29 000**

51. **6 590**

52. **81 500**

53. **40 000**

54. **72 099 $\approx$ 72 100**

55. **79 500**

56. **6000 + 4000 = 10 000**

57. **25 000 – 12 000 = 13 000** (Note: 24 500 rounds up to 25 000)

58. **1900 + 2100 = 4000**

59. **15 000 - 9000 = 6000 km**

60. *Sample answer:* His estimated total is **less than** the actual total. We know this because he rounded *both* numbers down (\$4450 down to \$4000, and \$3450 down to \$3000). Since both starting values were made smaller, the final estimated sum must also be smaller than the actual sum.

