

✓ Skill Check 7.2.4

Write the following Chinese numeral as a Hindu-Arabic numeral.

三十五

$$4 = \text{四}$$

$$100 = \text{百}$$

$$0 = \text{零}$$

$$7 = \text{七}$$

$$407 = \text{四百零七}$$

Skill Check Answers

1.  2. $v\beta$ 3. XXIV 4. 35

7.2 Exercises


✓ CONCEPT CHECK

- The ancient Egyptian writing system used symbols called _____.
- In the Egyptian numeral system, _____ symbols are used to represent multiples of numbers.
- In the Ionic Greek numeral system, a symbol written above ____ means that value is multiplied by 10,000.
- Unlike previous systems studied, the Roman numeral system involves _____.
- In the Chinese numeral system, formal characters are used because the simple characters can be easily _____.

💡 PRACTICE

Write each Egyptian numeral as a Hindu-Arabic numeral.

6. 

7. 

8. 



Write each Hindu-Arabic numeral using Egyptian hieroglyphics.

12. 435,072

13. 1128

14. 2,601,011

15. 50,000

16. 71,614

17. 1,003,050

Write each Ionic Greek numeral as a Hindu-Arabic numeral.

18. $\lambda \varepsilon$

19. $\nu \mu \delta$

20. $\omega \gamma$

21. $\tau \alpha$

22. $\zeta \rho \iota$

23. $\eta \phi \nu \varepsilon$

24. γ
M

25. $\theta \omega \theta$
M

Write each Hindu-Arabic numeral as an Ionic Greek numeral.

26. 284

27. 196

28. 2000

29. 1078

30. 50,000

31. 80,424

Write each Roman numeral as a Hindu-Arabic numeral.

32. XXVII

33. XLVIII

34. CCXIX

35. DCLI

36. MCDIV

37. CMLXXV

Write each Hindu-Arabic numeral as a Roman numeral.

38. 35

39. 42

40. 79

41. 163

42. 558

43. 491

Write each Chinese numerals as a Hindu-Arabic numeral.

44. 十六

45. 五十四

46. 七百九十二

47. 一千零八

48. 三千五百二十一

49. 二万五千五百七十五

Write each Hindu-Arabic numeral as a Chinese numeral.

50. 26

51. 103

52. 82

53. 75

54. 649

55. 2002

56. Write today's calendar year using the Egyptian numeral system.
57. Write today's calendar year using the Ionic Greek numeral system.
58. Write today's calendar year using the Roman numeral system.
59. Write today's calendar year using the Chinese numeral system.

 **WRITING & THINKING**

60. One of the peculiarities with the Ionic Greek system is that numbers often look like words and vice versa, since the Greek alphabet is used to write numerals. Determine the number that these phonetic spellings also make.
 - a. dog = $\delta\omega\gamma$
 - b. bird = $\beta\iota\rho\delta$
 - c. star = $\sigma\tau\alpha\rho$
 - d. rain = $\rho\alpha\iota\nu$
61. Super Bowl LII was played on February 4, 2018, and featured the Philadelphia Eagles against the New England Patriots. The Eagles won the championship by a score of 41 to 33.
 - a. What number Super Bowl are the Philadelphia Eagles be able to boast about winning?
 - b. Why do you think we use Roman numerals to number the Super Bowl championship games and not our Hindu-Arabic numbers?
 - c. Why is an ancient European system used to name the super bowl instead of an ancient American system?
62. The 2024 Summer Olympics will be held in Paris from July 26 through August 11. The games are officially known as the Games of the XXXIII Olympiad.
 - a. What number Olympiad will these games be?
 - b. Why do you think we use Roman numerals to number the Olympics games and not Ionic Greek numerals since the Greeks started the Olympics?
63. Name at least one weakness of the Egyptian numeral system.
64. Explain why the absence of a zero is not as problematic in the Ionic Greek system as it is in the Babylonian system.
65. Which of the four numeral systems covered in this section do you find the easiest to write numbers in? Why?