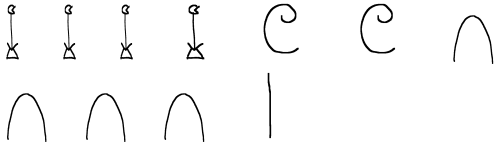


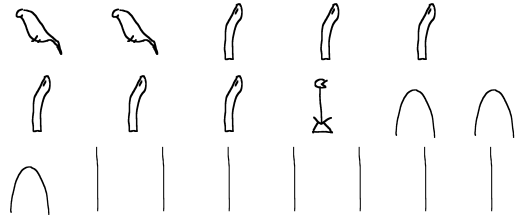
Section 1.1 Exercises

Write the following Egyptian numbers in Hindu-Arabic numerals.

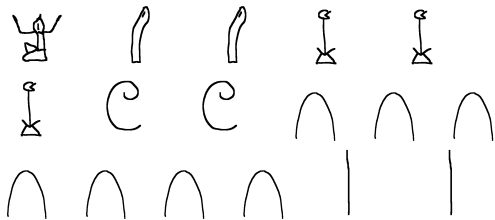
1.



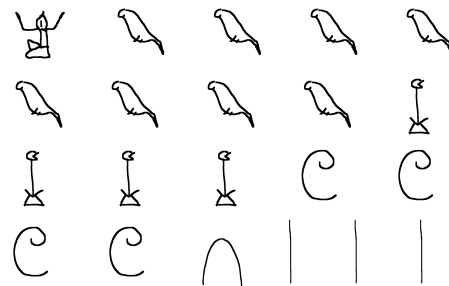
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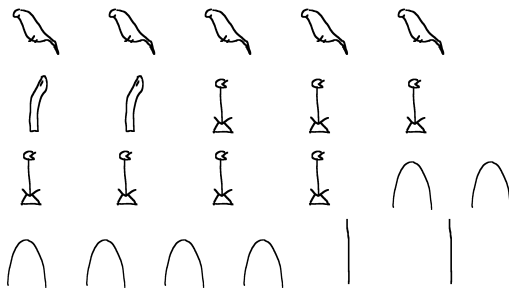
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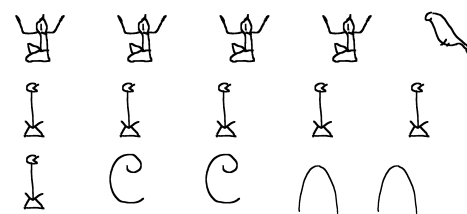
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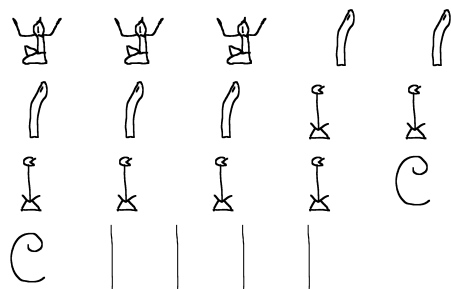
3.



8.



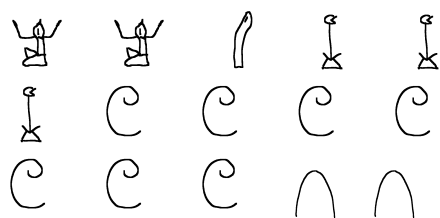
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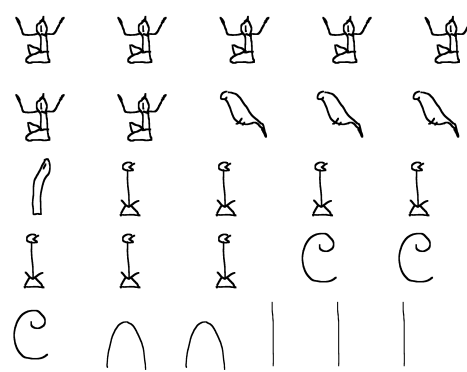
9.



5.



10.



Write the following Hindu-Arabic numbers in Egyptian numerals.

11. 333,417
12. 1,084,216
13. 643,921
14. 2,253,864
15. 721,352
16. 4,040,251
17. 34,567
18. 4,237
19. 2,091
20. 3,259

Write the following Roman numbers in Hindu-Arabic numerals.

21. MMCMLXXXVII
22. MMMDCCXCVI
23. MMCCCXLVII
24. MMMDCLXXIV
25. $\overline{VII}CCXLIII$
26. $\overline{IV}DXXXVIII$
27. $\overline{VI}DLXXVI$
28. $\overline{IX}CCCXCIII$
29. DCCCXLII
30. CDLXXV

Write the following Hindu-Arabic numbers in Roman numerals.

31. 3,467
32. 5,924
33. 1,036
34. 843
35. 925
36. 2,438
37. 2,639
38. 999
39. 1,483
40. 7,216
41.
 - (a). How many symbols are required to represent the number 7,899 as an Egyptian number?
 - (b). How many symbols are required to represent the number 7,899 as a Roman numeral?
42.
 - (a). How many symbols are required to represent the number 9,879 as an Egyptian number?
 - (b). How many symbols are required to represent the number 9,979 as a Roman numeral?

For each of the following pairs of numbers, answer the following questions.

- (a). Write each number in Egyptian numerals.
- (b). Write each number in Roman numerals.
- (c). Add the two numbers and express your answer in Egyptian numerals.
- (d). Add the two numbers and express your answer in Roman numerals.
- (e). In which system, Egyptian or Roman, is this sum easiest to calculate?

- 43. 124 and 344
- 44. 372 and 324
- 45. 654 and 345
- 46. 742 and 647

Use the following information for problems 47-56.

An additive system of numeration is created using the following symbols for powers of ten:

1	□
10	◆
100	☉
1000	⌘
10,000	⊠
100,000	⌚
1,000,000	↗

Express the following Hindu-Arabic numerals in this additive system.

- 47. 1,305,448
- 48. 36,215
- 49. 123,064
- 50. 65,130

Express the following numerals in this additive system as Hindu-Arabic numerals.

- 51. ↗↗↗⌚⊠□□
- 52. ↗⌚⊠⌘⌘⌘☉☉☉☉◆
- 53. ⌚⊠⊠⊠⊠⌘☉☉◆◆□□□□□
- 54. ↗↗↗↗↗⌚⌘⌘⌘☉◆◆◆
- 55. ↗↗⊠⊠⊠⊠⊠⊠⊠⊠⊠☉☉☉◆◆□□□
- 56. ⊠⊠⊠⊠⊠⊠⊠⊠⊠⌘□□□□□