

CLASS 8 · HOTS · OLYMPIAD PREPARATION · DPP SHEET

Chapter 2: HOTS: A Story of Numbers (Class 8)

Daily practice problems: 8 questions with an answer key

Try every question on your own first. The answer key is on the last page.

1. Write 100 in base 2.
2. Find the value of 1342_5 in base 10.
3. Write 4 05 06 070 in the Indian system in words and give the value of the digit 6.
4. Write the number 25 in base 2.
5. Add 1101_2 and 11_2 and give the answer in base 2.
6. In which place is the digit 7 of 7 654 321 in the international system, and what is its value?
7. What is the largest digit that can be used in base 6?
8. How many different numbers can be written with 3 binary digits (0 and 1 only, leading zeros allowed)?

Answer Key

1. 1100100_2 .
2. 222 ($125 + 75 + 20 + 2$).
3. Four crore five lakh six thousand seventy. The digit 6 stands for 6000.
4. 11001_2 .
5. 10000_2 ($13 + 3 = 16$).
6. The millions place, and its value is 7 000 000.
7. 5.
8. 8 (from 000 to 111).

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