

1) What is the greatest 4-digit number that has all of the following characteristics ?

- It is an odd number
- The sum of the digits is 6
- Each digit is different

Answer:

2) There are 15 tables in Camille's Cafe. Some of those tables can seat 6 people, and the rest of them can only seat 4 people. If a maximum of 76 people can be seated at Camille's Cafe, how many 6-people tables does the cafe have?



Answer: 6-people tables

3) In the following addition example, each letter represents one digit. If the same letters represent the same digits and different letters represent different digits, what is the sum of A, B, and C ?

$$\begin{array}{r} 2 \ A \ B \\ + \ C \ 6 \ D \\ \hline 8 \ B \ D \end{array}$$

Answer:

4) A perfect cube is a number which is a cube of an integer. For example, 27 is a perfect cube because it is a cube of 3: $3 \times 3 \times 3 = 27$. What is the largest 3-digit perfect cube?

Answer:

5) Six teachers can grade all final tests in 4 hours. If each teacher works at the same rate, how many hours would it have taken for 8 teachers to grade the tests?

Answer: hours