



Math Olympiad and Problem Solving Programs
F130 - Advanced Problem Solving
Problem Set 1.1 - Place Values

Name:

Date:

1. $\boxed{16}$
2. (a) $\boxed{65520}$.
(b) $\boxed{20556}$. Remark: 0 cannot be the first digit of any number.
(c) $\boxed{20565}$.
(d) $\boxed{65520}$.
3. $\boxed{5}$.
4. (a) $\boxed{29934}$.
(b) $\boxed{6960}$.
(c) $\boxed{37923}$.
(d) $\boxed{8413}$.
5. (a) $\boxed{0}$.
(b) $\boxed{1000}$.
(c) $\boxed{10,000}$.
(d) $\boxed{13,000}$.
6. $\boxed{340,000}$.
7. The only way to make three odd number sum to 5 is $3 + 1 + 1 = 5$. For the number to be larger than 200, it must be $\boxed{311}$.
8. $(n + 5) \times 3 = 30$. Thus, $n = \boxed{5}$.
9. $\boxed{5 - 5 + 5 - 5}$. Remark: There are more than one solution.
10. $\boxed{9 \times 9 + 9 + 9 + 9 \div 9}$. Remark: There are more than one solution.