



Math Olympiad and Problem Solving Programs

E120 - Honors Algebra Problem Solving

Problem Set 3.1 - Linear Equation Word Problems Solutions

Name:

Date:

1. $3x + 6 = 39$, which means $x = \boxed{11}$
2. $5x - 27 = 48$. Thus, $x = \boxed{15}$
3. $\boxed{\text{July 9}}$.
4. $x - 1630 = 1630 \div 2 - 140$, $x = \boxed{2305}$.
5. $x + x + 2 = 158$ $x = \boxed{78, 80}$.
6. $x + (x + 1) + (x + 2) + (x + 3) + (x + 4) = 5x + 10 = 165$. $x = \boxed{31}$.
7. $3x + x = 148$. $x = \boxed{111}$.
8. $\boxed{2014}$.
9. $\boxed{50 \text{ cents}}$.
10. $\boxed{15}$.