



Math Olympiad and Problem Solving Programs
E120 - Honors Algebra Problem Solving
Problem Set 21.2 - Speed, Age, Coins

Name:

Date:

1. $d = 40, q = 58$
2. 200 mi, 220 mi
3. $M = 30, S = 5$
4. $J = 22, F = 26$
5. 3,000 adults, 2,000 children
6. 3 h
7. $J = 18, N = 14$
8. $M = 44, R = 16$
9. 20 mph, 25 mph
10. The jet flew at speeds of $\frac{480}{1\frac{1}{2}} = 320$ mph from Newport Beach to San Francisco and $\frac{480}{1} = 480$ mph from San Francisco to Newport Beach. Let x be the speed of the wind in mph. $320 + x = 480 - x$, giving us $x = 80$ mph.