

1. When Charlotte planted her tomato plant, it grew 3 inches in one week. After 5 weeks, the tomato plant was 23 inches tall. Assume the relationship is linear. Find and interpret the rate of change and the initial value.
2. The total cost of renting a vacation home includes a deposit and a daily rental fee of \$125. A family rents a vacation home for 5 days and pays \$700. Assume the relationship is linear. Find and interpret the rate of change and the initial value.
3. In order to enter the state fair, there is an admission cost. Each game is \$3. Steven went to the state fair, played 4 games and spent a total of \$20 on admission and games. Assume the relationship is linear. Find and interpret the rate of change and the initial value.
4. After writing part of his novel, Thomas is now writing 16 pages per week. After 4 weeks, he has written 85 pages. Assume the relationship is linear. Find and interpret the rate of change and the initial value.
5. A photographer charges \$20 for an 8×10 photo plus a sitting fee. Luann spent \$55 on two 8×10 photographs and the sitting fee. Assume the relationship is linear. Find and interpret the rate of change and the initial value.
6. To perform car maintenance, a mechanic charges for parts and \$45 an hour for labor. The total cost that Terri spent for 2 hour of car maintenance is \$125. Assume the relationship is linear. Find and interpret the rate of change and the initial value.