Section 3.2 Examples  
With correlation to Angel 7th Edition

1. Six subtracted from three times a number is 15.  
Find the number. (like 3, 4, 11, 13, 16, 17, 23, 25)

2. The sum of two numbers is $\frac{1}{2}$. The smaller number is $\frac{3}{4}$ of the larger number.  
Find the two numbers. (like 5-10, 12, 14, 15, 17, 24, 26, 27, 28)

3. Jenny makes $33,000 per year at her job and is promised a raise of $1,800 per year. How many years will it be before she is making $60,000 per year?  
(like 18-22)

4. Renting a truck costs $50 per day plus 40 cents per mile. How many miles can be driven on the day the truck is rented if the renter has just $96? (like 29-34, 41)
5. The mortgage payment at Bank C is $600 per month. The mortgage payment at Bank D is $560 per month, but there is an up-front fee of $1000. In how many months will the cost of the two mortgages be the same? (like 35-40, 42)

6. The cost of a CD is $13.63, which includes a 6 ½% sales tax. What was the selling price of the CD before the tax was added? (like 43-46, 52, 56)

7. After starting an exercise and diet routine a patient’s cholesterol level went down 15%. The patient’s new cholesterol level is 187. What was the patient’s cholesterol level before the new routine? (like 47, 48, 50, 51, 53, 57)

8. Juanita can make $500 a week plus 8% of sales, or $300 a week plus 12% of sales. How much would she have to sell to make the two options pay the same? (like 55, 58-60)

1) 7  2) smaller \( \frac{3}{14} \), larger \( \frac{4}{14} \)  3) 15 years  4) 115 miles
5) 25 months  6) $12.80  7) 220  8) $5,000