Math 002 P1

More word problems![1]

October 16, 2014

(1) 68 less than 5 times a number is equal to the number. Find the number.

(2) The sum of two numbers is 84, and one of them is 12 more than the other. Find both numbers.

(3) The sum of two consecutive integers is 37. Find both numbers.

(4) When 142 is added to a number, the result is 64 more than 3 times the number. Find the number.

(5) You buy a book for $14.70, which is a 30% discount off the regular price. What is the regular price?

(6) Two planes start 2400 miles apart and fly toward each other. Their speeds differ by 60mph. They pass each other after 5 hours. Find their speeds.

(7) You're running late one day, and run to class at full speed, 8mph. After class you walk more casually back, at 2mph. Including the 1 hour class, you're away from your dorm for 1.5 hours. How long did the run take? How long did the walk take?

(8) Divide $80 among three people so that the second will have twice as much as the first, and the third will have $5 less than the second.

(9) $1400 is divided between a checking and a savings account. The checking account (surprisingly) pays 0.5% interest, and the savings account (even more surprisingly) pays 3% interest. After one interest period, the total interest earned was $20. How much was invested in each account?

(10) After one interest period, the interest earned on a $7000 investement exceeds the interest earned on a $5000 investment by $160. The interest rate for the $5000 investment is 1.6% greater than the interest rate for the $7000 investment. Find the interest rates.

---

[1]problems adapted from websites of Bruce Ikenaga and Lawrence Spector