

1. A man invests \$50,000 in two accounts. One account at 6% and the other at 9%. The two accounts pay him the same interest. How much invested at each rate?
2. A woman invests \$60,000 into two accounts. The 10% account earns \$120 more interest than the 8% account. How much invested at each rate?
3. A person invests \$20,000 into two accounts, one at 5% and the other at 7%. The total interest earned is \$240. How much invested at each rate?
4. A boy has 28 coins, dimes and quarters. The total value is \$5.20. How many of each type of coin?
5. A lady buys clothing for her dear brothers. She buys 36 pieces of clothing total. She pays \$30 for a shirt and \$40 for a pair of pants. If she spent a total of \$1190, how many of each item was bought?
6. If 25 bats and 40 balls can be purchased for a total of \$2040 while 30 bats and 60 balls cost \$2520. How much will it cost for each bat and each ball? What month of the year will the Maple Leafs be using this after being eliminated from league play by Montreal and again missing the playoffs?
7. How much of a 6% acid solution must be added to 400ml of a 9% acid solution to end up with a 7.5% solution?
8. A boat takes 2 hr to travel down a 24km river with the current and 6 hr against the current. What is the speed of the current?
9. The receipts from 550 people attending a play were \$9184. The tickets cost \$20 for adults and \$12 for students. How many of each kind of ticket sold. One fertilizer is 24% N and the other is 12% N. How much of each fertilizer should be mixed to obtain 100kg of fertilizer that is 21% N(Nitrogen).
10. A boy and his mother have their ages total 60 years. In 4 years time the boy will be $\frac{1}{3}$ the age of his mother today. How old are each?
11. One type of granola is 30% fruit and the other is 15% fruit. What amount of each is needed to make 600grams of a bar 21% fruit?
12. A CLUB CHARGES A FLAT RATE FOR MEMBERSHIP PLUS AN HOURLY FEE FOR USE. If 7 hr of time produced a bill of \$305 while a 16 hr usage cost total of \$440 what is the membership fee and also the hourly fee.
13. A woman is $2\frac{1}{2}$ times as old as her daughter. But, in 10 years time she will be exactly twice as old as her daughter. How old are each now?

