

Instructions:

Complete all questions in the order they appear on your own paper. Be sure to show all workings - failure to do so will result in a loss of marks. Organize your work and indicate your final answer by circling or highlighting it. Remember to always reduce your fractional answers to lowest terms. When you scan the assignment for submission, be sure to check the final scanned file to ensure that it is complete and readable. Please check the instructions on the course site for complete instructions for submission of assignments. If you have any questions post them under the Unit 4 discussion page so that they can be addressed.

1. Six times a number is 9 more than 3 times that number. Find the number.
2. A wire, 200 cm long, is cut into two pieces. One piece is 68 cm shorter than the other. Find the length of each piece.
3. Two numbers add to 39. One number is 9 less than 7 times the other. What are the numbers?
4. The perimeter of a rectangle is 8.0 cm. The width is $\frac{3}{5}$ of the length. Find the width and the length.
5. The sum of three consecutive integers is 639. Find the numbers.
6. A man is 5 times as old as his son. In 7 years the father will only be 3 times as old as his son. What are the present ages of the father and son?
7. The sum of three consecutive odd numbers is 645. Find the numbers.
8. The base of an isosceles triangle is one-quarter the length of either of the longer sides. If the perimeter of the triangle is 36, what is the length of the sides of the triangle?
9. Jerry drove for 4 hours before lunch. After lunch he drove 5 more hours and averaged 10 mph less than he did before lunch. If his total distance was 688 miles, then what was his average speed after lunch?
10. In 6 years Todd will be twice as old as Darla was when they met 6 years ago. If their ages total 78 years, then how old are they now?
11. A hockey team played 72 games during the regular season. They won 6 more than twice as many as they lost. How many did they win?
12. A car traveling at a rate of 30 km/h left Gander. A second car left Gander 1 hour later. At what rate must the second car travel to catch up with the first in 3 hours?
13. A purse contains dimes and quarters. If there are 11 coins whose total value is \$2.00, find the number of quarters and the number of dimes.
14. A boy was sent to the post office with \$16.25 to buy 2¢, 3¢, and 5¢ stamps. He bought 50 more 3¢ stamps than 2¢ stamps and 25 less 5¢ than 2¢ stamps. How many of each kind did he buy?