

Problem Set: Due Wednesday

Complete on loose-leaf and show all work.

Traveling Salesman

A salesman sold twice as many cars this year than last year. If she sold 78 cars in the past two years, how many cars did she sell last year?

Apple Picking

Marc, Betsy, and Mary were picking apples. Mary picked twice as many as Marc. Betsy picked 2 kg more than Marc. Together the three of them picked 23 kg of apples. How many kilograms did each of them pick?

Bookworm

Franchesca finished $\frac{2}{3}$ of a book. She estimated that she finished 40 more pages than she has yet to read. How long is her book?

Farm Tractor

A farming field can be ploughed by 6 tractors in 4 days. When 6 tractors work together, each of them ploughs 120 hectares a day. If two of the tractors were moved to another field, then the remaining 4 tractors could plough the same field in 5 days. How many hectares a day would one tractor plough then?

Strange Number

A student chose a number, multiplied it by 3, then subtracted 138 from the result and got 102. What was the number he chose?

Stranger Number

I chose a number and divide it by 5. Then I subtracted 204 from the result and got 6. What was the number I chose?

Meet in the Middle

The distance between two towns is 260 km. At the same moment, a passenger car and a truck start moving towards each other from different towns. They meet 4 hours later. If the car drives 5 km/hr faster than the truck, what are their speeds?

Rectangular Area

One side of a rectangle is 5 cm shorter than the other side. If we increase the length of each side by 1 cm, then the area of the rectangle will increase by 18 cm^2 . Find the lengths of all sides.