Answer 10 questions. Give all operations (except mental ones) necessary to find results. Reduce each result to its simplest form and mark it Ans.

1. Define interest, longitude of a place, brokerage, gram, power of a number.

2. Copy and add [No credit will be given unless the sum is correct]:

   |  4368 |  5978 |  6875 |  6648 |  1234 |  6678 |
   |  6635 |  9635 |  8845 |  7656 |  1283 |  6879 |
   |  5678 |  9654 |  1673 |  8978 |  4324 |  6678 |

3. A man travels 360 miles in 12 days; at the same rate how far will he travel in 21 days? [Give written analysis.]

4. Find the simple interest on $3562.25 from January 28, 1908 to June 18, 1910 at 4½%.

5. Taking the two numbers 445.3 and .073 find (a) their sum, (b) their difference, (c) their product, (d) the quotient of the first divided by the second. [a, b, c and d to have 2½ credits each if results are correct.]

6. A corner lot has 96 feet front and is 180 feet deep; find the cost of laying a 4-foot stone walk on the front and side at 18 cents per square foot. [Draw a diagram of the lot and walk.]

7. A boy bought oranges at 20 cents per dozen and sold them at the rate of 2 for 5 cents; what per cent did he gain?

8. Which is the better for the purchaser and how much: two successive trade discounts of 25% and 10% on a bill of $500 or a single discount of 33½%?

9. The total assessed valuation of a certain school district was $2,559,000; the amount to be raised by tax was $11,515.50. Find the amount of tax on a block assessed at $85,000.

10. A horse tied to a stake can reach the grass 30 feet in any direction from the stake; over how many square feet of land can the horse graze?

11. If the distance between two places is 320 km., how many miles is it? [A meter is approximately 39.37 inches.]

12. Two stockmen maintain a common drinking trough; they share the annual cost of repairs according to the number of cattle owned by each. A has 1253 head of cattle and B has 2747. The annual cost of repairs is $80. How much should each pay?