

Mental Math Pre-test 2**Date:** _____*Directions: Do your best. Attempt to find each answer in your head. No calculators allowed.*

- 1) Estimate the solution: $x + 1,983,034 = 9,008,203$. _____
- 2) If the box has dimensions $2.12 \text{ cm} \times 44.39 \text{ cm} \times 4.94 \text{ cm}$, what is the approximate volume?

- 3) You and your family decide to take a trip to the apple orchard. It is 26 miles away. After driving there and back, how far have you traveled? _____
- 4) Estimate the total bill for the following items: \$4.48, \$17.31, \$3.24. _____
- 5) Simplify: $\frac{350x^2}{70x^4}$ _____
- 6) If the probability of success is .42, what is the probability of failure? _____
- 7) How many eggs in 7 dozen eggs? _____
- 8) Find the perimeter of a square with each side 46 m. _____
- 9) If a total bill of \$52 is split by four friends, what does each pay? _____
- 10) Simplify $(-14)(-45)$ _____
- 11) Solve $71 = 2x - 5$ _____
- 12) $\frac{1}{9} \cdot 6300 =$ _____
- 13) Find the total cost of 9 candy bars each costing \$.70. _____
- 14) Solve $\frac{231}{703} = \frac{462}{y}$ _____
- 15) 100 is what percent of 400? _____