

## Mental Math Pre-test

Date: \_\_\_\_\_

Directions: Do your best. Attempt to find each answer in your head. No calculators allowed.

- 1)  $(-233) + (-140) =$  \_\_\_\_\_
- 2) Solve  $400 = 88 + x$ . \_\_\_\_\_
- 3) Simplify  $9 \times 5 \times 6 \times 2 =$  \_\_\_\_\_
- 4) Solve  $48 = \frac{r}{2}$  \_\_\_\_\_
- 5) The five busses had the following number of students: 39, 39, 41, 43, 41. Estimate the total number of students. \_\_\_\_\_
- 6) Simplify  $z^{16} \cdot z^{39}$  \_\_\_\_\_
- 7)  $x =$  weight of the item to be shipped, in pounds  
 $S =$  cost, in dollars, to ship the item  
 $S = 30x$ .  
If the shipping cost is \$1200, find the weight of the item. \_\_\_\_\_
- 8) Simplify  $y^{65} \cdot y^{15}$  \_\_\_\_\_
- 9) Ross's new car cost him \$3260. If he pays for it with 4 equal monthly payments, how much money is one payment? \_\_\_\_\_
- 10) Estimate the perimeter of the triangle. \_\_\_\_\_
- 11)  $m(t) = \frac{104.1}{t}$  find  $m(1.041)$  \_\_\_\_\_
- 12) Simplify  $\sqrt{x^{98}}$  \_\_\_\_\_
- 13) If there is a 10% tourism tax on hotel rooms, what is the tourism tax if the hotel room costs \$95.80? \_\_\_\_\_
- 14) Solve  $\frac{x}{4} = 14.2$  \_\_\_\_\_
- 15) Evaluate  $\frac{x}{y}$  if  $x = 46$  and  $y = 4$ . \_\_\_\_\_

