**2010 Chiles Mini Mu Mental Math**

\_\_\_\_\_\_ 1.

\_\_\_\_\_\_ 2.

\_\_\_\_\_\_ 3. Find the GCF of 52 and 169

\_\_\_\_\_\_ 4. What is the slope of the line through

(-4, -1) and (8, -33)?

\_\_\_\_\_\_ 5.

\_\_\_\_\_\_ 6.

\_\_\_\_\_\_ 7. How many millions of pounds are in 1500 tons?

\_\_\_\_\_\_ 8. Find the LCM of 9, 7, and 21

\_\_\_\_\_\_ 9.

\_\_\_\_\_\_ 10. (answer should be an improper fraction)

\_\_\_\_\_\_ 11. Simplify:

\_\_\_\_\_\_ 12. If and , find the value of

\_\_\_\_\_\_ 13.

\_\_\_\_\_\_ 14. Find the 8th term of 1, 5, 9, 13, …

\_\_\_\_\_\_ 15. What is the area of a circle with diameter 6?

\_\_\_\_\_\_ 16.

\_\_\_\_\_\_ 17. 7 is what percent of 20?

\_\_\_\_\_\_ 18.

\_\_\_\_\_\_ 19. Round to the nearest whole number:

\_\_\_\_\_\_ 20. =?

\_\_\_\_\_\_ 21. Simplify:

\_\_\_\_\_\_ 22.

\_\_\_\_\_\_ 23. Find the remainder of

\_\_\_\_\_\_ 24. What is the probability of rolling two twenties on two fair twenty sided dice?

\_\_\_\_\_\_ 25. Find the volume of a cube with a surface area of 294.

\_\_\_\_\_\_ 26. Solve for x:

\_\_\_\_\_\_ 27.

\_\_\_\_\_\_ 28. The sides of a right triangle are all integer values. If the longer leg has length 8, what is the length of the hypotenuse?

\_\_\_\_\_\_ 29.

\_\_\_\_\_\_ 30. Give the prime factorization of 72.

\_\_\_\_\_\_ 31.

\_\_\_\_\_\_ 32. Find the median of 43, 7, 13, 3, 19, and 37

\_\_\_\_\_\_ 33. 17% of 200 is what percent of 50?

\_\_\_\_\_\_ 34. Solve for x:

\_\_\_\_\_\_ 35. If the average of x, 17, 19, 23, and 31 is equal to 20, then x is equal to what?

\_\_\_\_\_\_ 36.

\_\_\_\_\_\_ 37. Find the volume of a sphere with diameter 6.

\_\_\_\_\_\_ 38.

\_\_\_\_\_\_ 39. Answer as a simplified fraction:

\_\_\_\_\_\_ 40. How many feet are in 1337 yards?