

REMT 2008

ANSWERS



ARITHMETICAL

ANALYSIS

1. _____
2. _____
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14. _____
15. _____

LAST NAME

FIRST NAME

GRADE

Be sure to write each of your answers on the answer sheet.

1. The sum of the integers from 1 to 100 is 5,050. What is the sum of the even integers from 2 to 200?
2. 45% of 104 is 65% of what number?
3. What is the exact value of $\sqrt{3\frac{13}{36}}$?
4. What is the cube root of 68,921?
5. What is the least common multiple of 72, 126, and 168?

6. Two-thirds of 80 is five-sixths of what number?
7. What is the largest prime factor of 22,344?
8. What is the exact value, expressed as a fraction in lowest terms, of $\frac{1}{3} - \frac{3}{4} + \frac{5}{6}$?
9. What is the exact value, expressed as a fraction in lowest terms, of $1\frac{2}{3} \div 2\frac{1}{2}$?
10. What number is $\frac{3}{5}$ of the way from 28 to 63?

11. I have \$31.85 in pennies, nickels, dimes, quarters, and half-dollars. If I have an equal number of coins of each kind, how many coins do I have altogether?

12. At 55 miles per hour, how many minutes will it take to drive 33 miles?

13. The number 15,500 is the product of two consecutive positive integers. What is the smaller of these two integers?

14. What integer, greater than 1, when divided into each of 125 and 148, leaves the same remainder?

15. A certain integer has the magical property that when you subtract 7 from it and multiply the result by 7, you get the same answer as when you subtract 11 from it and multiply the result by 11. What is this integer?