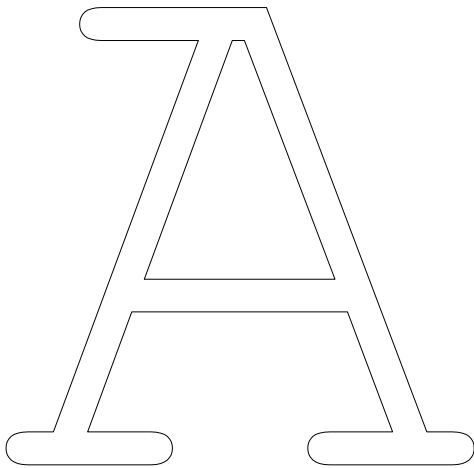


REMT 2005

ANSWERS



1. _____
2. _____
3. _____
4. _____
5. _____
6. _____
7. _____
8. _____
9. _____
10. _____
11. _____
12. _____
13. _____
14. _____
15. _____

ARITHMETICAL

ANALYSIS

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 25 is 325. What is the sum of the even integers from 2 to 50?
2. 30% of 55 is 66% of what number?
3. What is the remainder when 789 is divided by 123?
4. What is the cube root of 941,192?
5. What is the largest integer that evenly divides 210, 280, and 336?

6. If the number 40 is increased by 40%, and if that result is then decreased by 40%, what is the final result?

7. When a certain positive number is subtracted from its square, the result is 420. What is that number?

8. What is the exact value, expressed as a fraction in lowest terms, of $\frac{1}{3} - \frac{1}{4} + \frac{1}{5} - \frac{1}{6}$?

9. What is the exact value, expressed as a fraction in lowest terms, of $1\frac{2}{3} \div 6\frac{7}{8}$?

10. What is the exact value of $\sqrt{5\frac{4}{9}}$?

11. Pat just bought a new portable MP3 player. The total cost, including $7\frac{1}{2}\%$ tax, was \$67.08.

What was the price of the MP3 player, without the tax?

12. A department store opened one morning at 6:30 for its annual 1,000 minute sale. What time did the sale end that evening?

13. Two-thirds of fifty-five is five-sixths of what number?

14. What number is $\frac{7}{9}$ of the way from 30 to 84?

15. Jane just won a contest in which the prize is equal to her weight in new U.S. nickels. If 17 of these nickels weighs 3 ounces, and if Jane weighs 90 pounds, how many dollars did she win?

