

*REMT 2003*

*ANSWERS*



*CALCULATIONAL  
COMPUTATION*

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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 200 is 20100. What is the sum of the odd integers from 1 to 199 ?
2. What is the remainder when 12345 is divided by 678 ?
3. When a certain number is subtracted from its cube, the result is 6840. What is that number?
4. The number 128 has eight distinct positive integer divisors. What is the product of all these divisors?
5. What number is four-sevenths of the way from 150 to 500 ?

6. What is the exact value of  $\sqrt[3]{3\frac{3}{8}}$  ?
7. The sum of two numbers is 12 and their product is  $5\frac{3}{4}$ . What is the larger of these two numbers?
8. Solve the equation  $a = \frac{b+5}{b-6}$  for  $b$  in terms of  $a$ .
9. Simplify as much as possible the expression  $\frac{3x^2 - 16x + 5}{3x^2 + 20x - 7}$ .
10. Simplify as much as possible the expression  $\frac{1}{\sqrt{x}-1} - \frac{\sqrt{x}}{x-1}$ .

