

The Collegiate Intrasccholastic League
Number Sense Test • HS Invitational A • 2008

Contestant's Number _____

**Read directions carefully
before beginning test.**

**DO NOT UNFOLD THIS SHEET
UNTIL TOLD TO BEGIN**

Final _____

2nd _____

1st _____

Score Initials

Directions: Do not turn this page until the person conducting this test gives the signal to begin. This is a ten-minute test. There are 80 problems. Solve accurately and quickly as many as you can in the order in which they appear. ALL PROBLEMS ARE TO BE SOLVED MENTALLY. Make no calculations with paper and pencil. Write only the answer in the space provided at the end of each problem. Problems marked with a (*) require approximate integral answers; any answer to a starred problem that is within five percent of the exact answer will be scored correct; all other problems require exact answers.

The person conducting this contest should explain these directions to the contestants.

STOP – WAIT FOR SIGNAL!

(1) $2008 + 208 - 23 =$ _____

(2) $50 \times 200.8 =$ _____

(3) $\frac{2}{7} + 2\frac{1}{8} =$ _____ (mixed number)

(4) $\frac{7}{8} \div 0.2 =$ _____ (improper fraction)

(5) $(24 + 18) \div 12 \times (3 - 6) =$ _____

(6) $7.5\% =$ _____ (proper fraction)

(7) $15 \times 28 =$ _____

(8) $28 \div 11 + 18 \div 11 =$ _____

(9) $23^2 =$ _____

*(10) $41 \times 411 + 4111 =$ _____

(11) The largest prime divisor of 65 is _____

(12) $11 \div 1\frac{2}{3} =$ _____ (decimal)

(13) If 12 ounces of nuts cost \$1.25 then 3 pounds of nuts will cost \$_____

(14) 280 plus 30% of 320 is _____

(15) Which is smaller, $1\frac{1}{3}$ or 1.3? _____

(16) $2 \text{ ft.} \times 3 \text{ ft.} \times 4 \text{ ft.} =$ _____ cubic yards

(17) $(34 + 65 + 96) \div 3$ has a remainder of _____

(18) The mode of 2, 8, 4, 8, 2, -4, 8, 4, and 8 is _____

(19) MMVIII - MIV = _____ (Arabic Numeral)

(20) $987 - 654 \times 321 =$ _____

(21) If $A = 3$, $B = 5$, and $C = B$, then $BC + A =$ _____

(22) $7.777\ldots - 3.333\ldots =$ _____

(23) $23 \times 27 =$ _____

(24) $\int_2^3 f(x)dx$

*(25) $73 \times 62 =$ _____

(26) $\frac{7}{8} \div 0.2 =$ _____ (improper fraction)

(27) $(24 + 18) \div 12 \times (3 - 6) =$ _____

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Answer Key