

ATLANTIC-PACIFIC MATHEMATICS LEAGUE

Middle School/Junior High School League

No Calculators Permitted

Name _____

Grade Level _____

Score _____

Time 30 Minutes

Math Teacher _____

Answer Column

1.1 The sum of two numbers is 10; their product is 20. Find the sum of their reciprocals.

1.2 16% of 35 is 4% of what number?

1.3 The perimeter of a square is 64. What is the area of this square?

1.4 Solve for B if $\frac{1}{A} + \frac{1}{B} = \frac{1}{C}$.

1.5 Factor as far as possible in the domain of integers.

$$A^2B + AB^2 + A^2 - B^2 - (A+B)$$

1.6 If $\frac{2}{3}$ of the faculty of Madison High School are women and $\frac{1}{2}$ of the male members are married while 5 others are bachelors, how many teachers are on the faculty of this school?