| ***** NO CALCULATORS IN THIS ROUND ***** |

ANSWERS

A) _____

B) _____

C) _____

A) A number is 1 more than half of its opposite. Compute the reciprocal of this number.

B) If $0.06x + 0.15(10 - x) = \dfrac{3x}{4}$, compute $[-x]$.

Note: The greatest integer in x, denoted $[x]$ is the <u>largest integer</u> less than or equal to x.

C) *A*, *B*, *C* and *D* are 4 collinear points ordered on a line as indicated in the diagram below.
If $AD = 203$, $\dfrac{AC}{BD} = \dfrac{4}{9}$ and $\dfrac{AB}{CD} = \dfrac{10}{27}$, compute *BC*.