

1. Consider the following expressions:

- I) $2 + 2$
- II) The number of musicians in a string quartet.
- III) The number of golfers in a foursome.
- IV) The number of sides in a pentagon.
- V) The number of dimensions in the space-time continuum.

The largest list of expressions that must be equal to each other is

- A) I, II, III B) I, III, IV C) I, III D) I, II, III, V E) I, II, III, IV

Answer: D)

2. Recall that the *thousandths' digit* of a decimal expansion is the third digit to the right of the decimal. For example, the thousandths' digit of 1.23456 is 4. Find the solution to the equation $3x = 2$. Then compute an approximation to x using your calculator. (It should give you at least 6 decimal places accuracy.) What is the thousandths' digit of this approximation?

- A) 2 B) 4 C) 6 D) 8 E) 3

Answer: C)