

2014 John O'Bryan Mathematical Competition
Freshman-Sophomore Individual Test

Directions: Please answer all questions on the answer sheet provided. All answers must be written legibly in the correct blanks on the answer sheet and in simplest form. **Exact** answers are to be given unless otherwise specified in the question. No units of measurement are required. Each problem has the same point-value.

member selected is an irrational number. Give your answer as a fully reduced fraction.

2. If $x = 2.8$, find the value of $(3x + 7.6)^{-0.75}$. Give your answer as a fully reduced fraction.

of each type). If the coins have a total value of \$5.10, find the maximum number of nickels the man can

Name: _____

Team Code: _____

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1. _____

11. _____

2. _____

12. _____

3. _____

13. _____

4. _____

14. _____

5. _____

15. _____

6. _____

16. _____

Name: ANSWERS

Team Code:

2014 John D'P... Mathematical Competition

Note: All answers must be written legibly and in simplest form. Exact answers are to be given unless