

$|50 - 10|$

randomly throwing two fair 6-sided dice (the faces of each die are labeled with the values 1, 2, 3,

mean of the first three common terms of these sequences.

4. Let  $y = mx + b$  be the equation of a line that contains  $(2, 18)$  and is perpendicular to the line whose

some order form an arithmetic sequence. Express your answer as an improper fraction and reduce to lowest terms.

$m/300$

$m/300 + m/300$

Names: \_\_\_\_\_

Team Code: \_\_\_\_\_

2015 John O'Bryan Mathematical Competition  
Two-Person Speed Event

SCORE

Calculators are not allowed to be

2<sup>2015</sup>: 6 points  
All Others: 3 points

If there is another minute time limit.

7.

T2.

### 2014 John D'Keyser Mathematical Competition

A contest for students in the 7th, 8th, and 9th grades

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

otherwise indicated. Answers should be written in the space provided.



3. 38

4. 105

scores.

- 1<sup>st</sup>: 7 points
- 2<sup>nd</sup>: 5 points
- All Others: 3 points

There is a three minute time limit on each round. You may submit

7. 3860

8. 50

T1. 43

T2. 535