

**Team Test**  
**Interlake Invitational Math Competition**  
**3/14/2015**

**General Instructions**

Calculators or any other computational aids may not be used on any portion of the contest. The only allowed materials are writing utensils (pens, pencils, etc.), compasses, rulers, and protractors.

Express all rational, non-integer answers as reduced common fractions. All radicals must be simplified and all denominators must be rationalized. Leave all answers in terms of  $\pi$  where applicable. Do not round any answers unless stated otherwise.

The point value of each problem is given by the bold number in brackets next to the question number.

**Team Test**

40 minutes, 12 problems, 200 points max

When you are prompted to begin, tear off the answer sheet and give a copy of the test to each of your team members and begin testing. Record all answers on the provided answer sheet. Problems cover a variety of subjects. Teams are not expected to be able to solve all problems.

**School** \_\_\_\_\_

**Team Number** \_\_\_\_\_ **Room Number** \_\_\_\_\_

	Answer	Points Awarded	Points Awarded
1	<b>-6</b>	10	10
2	<b>6</b>	10	10
3	<b>(2, 1)</b>	10	10
4	<b>216</b>	12	12
5	<b>4</b>	12	12
6	<b>5</b>	14	14
7	<b>0</b>	16	16
8	<b>15/2</b>	18	18
9	<b>180</b>	20	20
10	<b>9/2</b>	24	24
11	<b>924</b>	24	24
12	<b>1</b>	30	30

**Score 1: 200   Score 2: 200**