

# Answer Key for 2013 MMC Test

October 29, 2013

1. 2,142

2.  $\frac{1}{3}$

3. 17

4. 5

5.  $\frac{2\pi}{3} - \frac{\sqrt{3}}{2}$

6. 2

7. 36

8. 12

9. 39

10.  $2 + 2011\left(\frac{\sqrt{3}}{2}\right)$

11.  $\frac{61}{27}$

12. 1806

13. 4:5 or  $\frac{4}{5}$

14.  $\frac{3}{20}$

15. 31