

# RAMC 2018

## High School Answers

March 14th, 2018

### 1 Answers

Full solutions will be posted on rochestermathclub.com.

If you have any challenges to test questions, please make the challenge within half an hour of when the answers are posted. On a blank sheet of paper, please include your name, grade, problem number, and your proof and explanation of why you believe your answer is (also) correct. Please give your proof to one of the test mods.

1.

$$\frac{101}{3}$$

2.

$$3 \leq x \leq \frac{7}{2} \text{ or } [3, \frac{7}{2}]$$

3.

$$\frac{117}{16}$$

4.

$$12$$

5.

$$3$$

6.

$$\frac{600}{11}$$

7.

$$\frac{1}{2}$$

8.

$$1755$$

9.

$$\frac{6\sqrt{10}}{7}$$

10.

$$378$$

11.

$$\frac{9}{32}$$

12.

$$2\sqrt{21}$$

13.

$$\frac{47}{81}$$

14.

$$\frac{1}{32}$$

15.

$$\sqrt{260 + 112\sqrt{2}}$$