

**JHMT 2013 Algebra Test
SOLUTIONS**

Problem 1. 15

Problem 2. $\frac{1 + \sqrt{13}}{2}$

Problem 3. 8960

Problem 4. 168

Problem 5. $\frac{546}{5}$

Problem 6. $\frac{25}{4}$

Problem 7. 6, $\frac{-1 \pm \sqrt{13}}{2}$

Problem 8. $-11/3$

Problem 9. $\frac{-\sqrt[3]{4} + 7\sqrt[3]{2} - 3}{23}$

Problem 10. $-\frac{3}{20}$