

## Mock AMC 8 2014 Answer Key

1. C      Arithmetic and Operations (Order of Operations – PEMDAS)
2. C      Arithmetic and Operations (Fractions/Decimals)
3. C      Arithmetic and Operations (Division)
4. C      Arithmetic and Operations (Calendar)
5. D      Number Theory - Pattern Recognition
6. D      Number Theory - Factorization
7. B      Number Theory – Number of Factors Formula
8. D      Number Theory – Sum of Factors Formula
9. E      Number Theory – Pattern Recognition (Squares)
10. B      Number Theory - Logic
11. E      Arithmetic and Operations (Fractions)
12. D      Word Problems - Work
13. A      Geometry – Angle Chasing
14. A      Geometry – Pythagorean Theorem
15. A      Geometry – Pythagorean Theorem
16. E      Geometry – Special Triangles 30-60-90
17. A      Geometry – Similar Triangles/Area Relationships
18. C      Counting – Inclusion-Exclusion Principal (Hard)
19. C      Number Theory - LCM, GCM and formula
20. D      Probability - Dice
21. A      Geometry – Angle Chasing
22. D      Geometry – Logic/Circles/Special Triangles 45-45-90
23. E      Probability - Dice
24. B      Counting – Casework (Hard)
25. B      Counting – Casework (Very Hard)
26. E      Probability – Inclusion-Exclusion Principal (Very Hard)

Some Additional Topics Not Covered to think about:

1. Arithmetic and Operations (Percents)
2. Geometry – Circle Area and Perimeter
3. Geometry – Area Relationships
4. Geometry – Triangle Inequality
5. Counting - Permutations/Combinations
6. Prealgebra - Mean/Median/Mode/Range
7. Word Problems – Rate-Time-Distance
8. Word Problems - Mixture
9. Solid Geometry – Vertices/Edges/Faces/Euler's Formula
10. Number Theory – Divisibility Rules 2,3,5,6,8,9,10,11,12
11. Number Theory – Terminating Digits