



18th Philippine Mathematical Olympiad
Qualifying Stage
17 October 2015

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PART I. Choose the best answer. Each correct answer is worth two points.

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|------|-------|-------|
| 1. B | 6. B | 11. B |
| 2. C | 7. D | 12. D |
| 3. C | 8. B | 13. B |
| 4. B | 9. D | 14. B |
| 5. A | 10. B | 15. B |

PART II. Choose the best answer. Each correct answer is worth three points.

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|------|-------|
| 1. D | 6. B |
| 2. D | 7. C |
| 3. B | 8. C |
| 4. B | 9. B |
| 5. B | 10. D |

PART III. All answers should be in simplest form. Each correct answer is worth six points.

1. $2 : 3$
2. 1209
3. 9
4. 105
5. 1016064