

## Math Day at the Beach 2017: Short Answers

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### MULTIPLE CHOICE:

1. C   2. D   3. B   4. E   5. D   6. C   7. C   8. A   9. B   10. D
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### INDIVIDUAL FREE RESPONSE PART 2:

11. 20   12.  $\frac{16\sqrt{5}}{3}$    13. 3150   14.  $\frac{13}{20}$ .
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### INDIVIDUAL FREE RESPONSE PART 3:

15.  $\frac{\pi+2}{8}$    16. 4   17.  $\frac{1}{16}$    18. 59, which is  $214_5$
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### TEAM ROUND:

1.  $\sqrt{2} - 1$    2. 192   3.  $\frac{5}{3}$    4. (252, 147) or (147, 252)   5. 9   6.  $\frac{999}{2}$    7.  $\frac{3}{4}$    8. 56
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