

Math Day at the Beach 2013: Short Answers

MULTIPLE CHOICE:

1. E 2. A 3. B 4. E 5. C 6. E 7. B 8. E 9. C 10. B
11. D 12. E 13. C 14. D 15. C
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INDIVIDUAL FREE RESPONSE:

16. $-\frac{2011}{4023}$ 17. 981 18. $1 + \frac{\sqrt{6}}{2}$ 19. $\frac{1}{14}$ 20. $2\sqrt{10}$
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TEAM ROUND:

1. 20 (miles) 2. $9 : 7$ or $\frac{9}{7}$ 3. Either (6, 2007) or (1209, 1602) 4. 19 5. $\frac{292\pi}{3}$ or $97\frac{1}{3}\pi$
6. $\frac{12}{5} \left(\frac{a}{3}\right)^{\frac{5}{4}}$ or $\frac{1}{15}3^{3/4}a^{5/4}$ 7. -65 8. $\frac{50}{3333}$
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