

San Diego Math League High School Division, Round 1 Solutions

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Round A

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

Round B

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|----------------|--------------------------------|---------------------|----------------------|
| 1. 28          | 6. $39^\circ$                  | 11. $\frac{4}{9}$   | 16. $\frac{1}{10}$   |
| 2. 12          | 7. 26                          | 12. $\frac{40}{23}$ | 17. $\frac{120}{37}$ |
| 3. 4 or 4 : 1  | 8. 10                          | 13. 90              | 18. 147              |
| 4. $120^\circ$ | 9. $\frac{243\sqrt{21}\pi}{2}$ | 14. 4019            | 19. 8                |
| 5. 19          | 10. 66                         | 15. 3.7 cm          | 20. 58               |