



2004 OCTM CONTEST ANSWER SHEET

SCORE: ****KEY****

Student's High School _____ Student's Name _____
 (First name) (Last name — **PRINT**)
 Test Site Name _____ Student Grade _____
 (9,10,11,12)

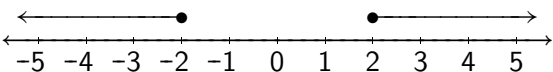
Please give HOME contact information (so that you can be notified for OHMIO and/or scholarship offers):

_____ STREET _____ CITY _____ STATE _____ ZIP _____ TELEPHONE (area code) _____ Gender _____
 (M,F)

_____ E-MAIL ADDRESS (print)

This column: Give EXACT value in simplest form.

This column: Write answer as indicated; watch for special form.

- | | |
|---|---|
| 1. 16 | 21. 29.1% “%” is OPTIONAL |
| 2. If not Reds, then Indians | 22. 100, 81, 49 must have ALL THREE answers |
| 3. $-3, \sqrt{16+4+1}$ | 23. 1336 cm ³ |
| 4. 64 | 24. 9 |
| 5. (1, 2) | 25. $a = -3$ $b = -10$ $c = 24$ |
| 6. a) N b) A c) S | 26. 207 km/hr |
| 7. 4 | 27. 3.6562 |
| 8. All real numbers or $-\infty < x < \infty$ | 28. 7 |
| 9. 496 | 29. 2 |
| 10. C | 30. $n = 21$ |
| 11. a) Dan b) 296 | 31. (2004, ____) ANY NUMBER in second blank |
| 12. $\frac{a}{b} = \frac{7}{5}$ | 32. $25\pi - 50$ or 28.5398 square units |
| 13. 51 | 33. $n = 3$ |
| 14. 5 | 34. 5 |
| 15. $a = 3$ $b = -4$ | 35. 300 |
| 16. 90 games | 36. $f(\theta) = \sin \theta$ |
| 17. $\frac{x}{y} = \frac{8}{9}$ | 37. $8\sqrt{6}$ or 19.5959 units |
| 18. 2004 sq. cm. or 2004 cm ² must have units | 38. Euler |
| 19. $x = 5$ | 39. 358 feet |
| 20.  | 40. 2:45 PM |