

Upper Interschool Answer Key

1. 93
2. 21
3. 192 square inches
4. 270
5. $6 \ln 5 - 4$ square units (problem does not give units)
6. 18
7. (A=2 C=5 E=8 L=4 M=3 N=6 T=7 O=9 V=0)
8. 6
9. $\frac{4}{5}$
10. 41
11. FFFFFFFF4
12. 0
13. -1
14. 292 or 293 (if dollar coin is included) (both answers are acceptable)
15. $\frac{\pi-1}{\pi}$
16. As far as the laws of mathematics refer to reality, they are not certain, and as far as they are certain, they do not refer to reality. –Albert Einstein
17. $123-45-67+89=100$
18. 0
19. 7
20. $\frac{1}{2}$
21. $\frac{1}{3}$
22. $\frac{6}{5}$ or 1.2
23. $32\pi + 64$
24. i
25. 3618π
26. $\frac{11\pi}{6}$
27. $1 - \frac{\pi}{8}$
28. A blue shirt and white socks (and a brown suit, if he is wearing one)
29. 12
30. $\frac{2\sqrt{3}}{3} < \pi < 2\sqrt{3}$