

ANSWER KEY FOR
ARYABHATTA INTER-SCHOOL MATHS COMPETITION – 2011

Class - VIII

SECTION - A

1. (c)
2. (a)
3. (b)
4. (d)
5. (c)
6. (a)
7. (b)
8. (b)
9. (c)
10. (b)

SECTION - B

11. (d)
12. (b)
13. (d)
14. (a)
15. (a)
16. (a)
17. (d)
18. (a) or (d)**
19. (c)
20. (d)

NOTE: This answer key is created by KoolSmartLearning.com for reference purpose.

- 21. (a)
- 22. (a)
- 23. (c)
- 24. (b)
- 25. (c)
- 26. (a)
- 27. (a)
- 28. (c)
- 29. (a)
- 30. (c)

SECTION - C

- 31. $\frac{4753}{9900}$
- 32. 83 or 38
- 33. 60 days
- 34. 145°
- 35. 20°
- 36. $(\sqrt{3} : 1)$
- 37. 10500
- 38. $20.83\pi \text{ cm}^3$ or 65.4062 cm^3
- 39. 45°
- 40. 40 cm
- 41. 18 km
- 42. 16 cm
- 43. 95°
- 44. 125
- 45. 0
- 46. $\pi \text{ cm}^2$
- 47. -1
- 48. 20 years
- 49. 62

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50. **0.80 (square root of square root of 3/7)**

SECTION - D

51. **26°**

52. **41.28 cm³**

53. **8√3 cm**

54. **15°**

55. **0.6**

56. **$\frac{a}{2}\sqrt{(b^2 - \frac{a^4}{4})}$**

57. **₹ 81.60**

58. **84 m**

59. **5/24**

60. **₹ 3000**

**** The measure of angle C can either be 70° or 110° depending upon whether the figure is a parallelogram or a trapezium. The question should ask the measure of angle D which would be 110° in either case.**