



ANSWER KEY FOR

ARYABHATTA INTER-SCHOOL MATHS COMPETITION – 2002

Class - VIII

PART - I

1. (i) $\frac{7}{64}$
(ii) 17m
(iii) 27
(iv) $3(2a-b-c)(2b-c-a)(2c-a-b)$
(v) 2
(vi) 17.5
(vii) 200
(viii) 16
(ix) 80°
(x) Equidistant

2. (i) T
(ii) T
(iii) F
(iv) T
(v) T
(vi) T
(vii) F
(viii) T
(ix) F
(x) T

3. (i) (b)
(ii) (c)
(iii) (c)
(iv) (b)

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

- (v) (b)
- (vi) (a)
- (vii) (a)
- (viii) (c)
- (ix) (d)
- (x) (a)

PART - II

4. (i) 58
 (iii) 18
 (iv) 0.654
5. (i) $(x - \frac{1}{x})^2(x + \frac{1}{x})^2(x^2 + \frac{1}{x^2})^2$
 (ii) ₹750
 (iii) 21
6. (i) 9kmph
 (ii) $(-3/5)^7$
 (iii) 0.3, 0.45, 0.6
 (iv) 40 years, 10 years
7. (i) 100° & 40° respectively
 (ii) 110°
 (iv) 4 days
8. (i) 10 cm
 (iii) 48000 years
 (iv) $200\sqrt{3} \text{ cm}^2$
9. (i) 60°
 (ii) $2a^2 + 3b^2 + c^2 - \sqrt{6}ab + \sqrt{3}bc + \sqrt{2}ac$
 (iii) ₹14850, 65%
- 10.(i) 683.83cm^3
 (ii) (a) 30
 (b) 33.3
 (c) 33.5
 (d) 35.3



KSL

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