

ANSWER KEY FOR
ARYABHATTA INTER-SCHOOL MATHS COMPETITION – 2008

Class - VIII

SECTION - A

1. (i) 2
- (ii) Parallelogram
- (iii) 1
- (iv) 52
- (v) $3^{1/2} \times 4^{1/3}$
- (vi) 22
- (vii) 50%
- (viii) 540
- (ix) $2/y$
- (x) 5
- (xi) 2:5
- (xii) 10
- (xiii) $\angle ACB$
- (xiv) $3\sqrt{3}:\pi$
- (xv) $4\sqrt{3}$ cm

2. (i) (a)
- (ii) (b)
- (iii) (c)
- (iv) (d)
- (v) (c)
- (vi) (a)
- (vii) (b)
- (viii) (c)

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

- (ix) (d)
- (x) (c)
- (xi) (a)
- (xii) (b)
- (xiii) (c)
- (xiv) (d)
- (xv) (a)

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

SECTION - B

4. 462400
5. $x = -1$
7. $(x - y + 1)(x^2 + y^2 + 1 + xy + y - x)$
8. $(x + 6)(x + 2)(x^2 + 8x + 10)$
9. 12.5%
10. 8.95%
12. 9.6 cm

SECTION - C

14. 12:00 pm, P is 125km from A or 95km from B

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15. ₹ 850
16. (i) 66
(ii) 1134
18. Approx. 49 cm^2
19. (i) 28
(ii) 50
(iii) 52

KSL