

ANSWER KEY FOR
ARYABHATTA INTER-SCHOOL MATHS COMPETITION – 2008-09

Class - VIII

SECTION - A

1. (i) 9
- (ii) 3
- (iii) 44
- (iv) $(\sqrt{2} + \sqrt{5})$
- (v) 12.9
- (vi) $\frac{\pi a^2}{2}$
- (vii) 36
- (viii) 23.5%
- (ix) 1
- (x) 35 cm^2
- (xi) circumcentre
- (xii) 5 **
- (xiii) 260
- (xiv) y/x
- (xv) $5/3$

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

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

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

SECTION - B

- 7. 10.5 m
- 8. 12.5%
- 9. 4 days
- 10. A - ₹ 2028, B - ₹ 1875
- 11. $(2x-3)(2x+3)(2x^2+5)$
- 12. 3850 cm^2
- 13. 26°

SECTION - C

14. 787.50 cm
15. 1512 cm^2 , 13580 cm^2
16. ₹ 9360
19. (i) 30
(ii) 20
(iii) 20.6
(iv) 29
(v) 19

**** The number in the denominator should be 1.236 instead of 1.234**

KSL