

ANSWER KEY FOR
ARYABHATTA INTER-SCHOOL MATHS COMPETITION – 2010

Class - VIII

SECTION - A

1. (i) 12
- (ii) $0.48\overline{01}$
- (iii) 2
- (iv) $3(2a - b - c)(2b - a - c)(2c - a - b)$
- (v) Parallel
- (vi) 6
- (vii) 5 cm
- (viii) 80 m
- (ix) 26
- (x) 8
- (xi) 11
- (xii) 81
- (xiii) 6 hrs
- (xiv) 4 cm
- (xv) $\sqrt{l^2 + b^2 + h^2}$

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

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

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

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

SECTION - B

- 5. 42 km/h
- 6. ₹ 12500
- 8. $3/x$
- 9. $x = 2$
- 11. (a) 48.2 kg
(b) 50 kg
(c) 48.1 kg
- 12. 21.5 cm^2

SECTION - C

15. $x = 2, y = -3$
16. $200\pi \text{ cm}^3$ or $628 \text{ cm}^3, 660\text{cm}^2$
17. $\frac{ab}{a+b} \text{ m}$
18. 402 m^2
19. ₹ 50

KSL