

ANSWER KEY FOR

ARYABHATTA INTER-SCHOOL MATHS COMPETITION – 2000

Class - VIII

PART - I

1. (i) 1 (ii) 0 (iii) 441 (iv) 5 (v) 48,66 (vi) 2 (vii) 6 (viii) 16 (ix) 8 (x) ₹50 2. (i) F (ii) F (iii) (iv) F (v) T (vi) F (vii) T (viii) F (ix) T (x) F 3. (i) (b) (ii) (c) (iii) (c)

NOTE: This answer key is created by <u>KoolSmartLearning.com</u> for reference purpose.

(iv)

(a)



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

PART - II

- 4. (a) $\frac{15}{4}$
 - (b) 60°
 - (c) Ram ₹7290/-, Shyam ₹6250/-
- 5. (a) $46\frac{2}{3}\%$
 - (b) $(x-\frac{1}{x}-1)(x-\frac{1}{x}+1)$
 - (c) $\angle ADC = 65^{\circ}, \angle DCB = 85^{\circ}, \angle CBA = 115^{\circ} \& \angle BAD = 95^{\circ}$
- 6. (a) 20 days
 - (c) $\frac{34}{225}$
- 7. (a) 2m**
 - (b) $x = 36^{\circ} \& y = 108^{\circ}$
 - (c) $(a^2x b^y)(a^2x + b^y)$
- 8. (a) 150m
 - (b) ₹450/-
 - (c) ₹750/-
- 9. (a) 7.5 liters
- 10.(a) $12\pi \text{ cm}$, $12\pi \text{ cm}^2$
 - (b) 180°

^{**} The Question should have all units in meters.