

ANSWER KEY FOR
ARYABHATTA INTER-SCHOOL MATHS COMPETITION – 2003

Class - VIII

PART - I

1. (i) T
(ii) T
(iii) T
(iv) F
(v) T
(vi) F
(vii) F
(viii) F
(ix) F
(x) T
2. (i) 2500
(ii) $43/30^{**}$
(iii) 250
(iv) ₹50
(v) 45°
(vi) 42°
(vii) 10 cm
(viii) 1.225 m
(ix) $100\pi \text{ cm}^2$
(x) ordered array
3. (i) (c)
(ii) (d)
(iii) Answer is 15. All choices are incorrect

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

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

PART - II

- 4. (i) 10
- (ii) $\frac{6}{8}, \frac{7}{9}, \frac{5}{6}, \frac{11}{13}$
- (iii) 16
- (iv) Vidur - ₹2400, Ishan - ₹1800
- 5. (i) A - ₹3762, B - ₹2280, C - ₹6498
- (ii) 37
- (iii) ₹3750
- (iv) 1.5 years
- 6. (i) ₹6400
- (ii) ₹125
- (iii) 64/3 days
- 7. (i) 4 km
- (ii) 14 m, 10 m
- (iii) $(12\pi - 9\sqrt{3}) \text{ cm}^2$
- 8. (i) 243 m
- (ii) (a) $3abc(a-b)(b-c)(c-a)$
(b) $(x-y)(x+y)(x^2+xy+y^2)(x^2-xy+y^2)$
- (iii) 15 cm, 8 cm, 17 cm
- 9. (i) 1644 cm^2
- (ii) (a) 55
(b) 46
(c) 60

** Question statement should be - $1 + \frac{1}{2 + \frac{1}{3 + \frac{1}{4}}}$

KSL