

**ANSWER KEY FOR**  
**ARYABHATTA INTER-SCHOOL MATHS COMPETITION – 2004**

**Class - VIII**

**PART - I**

1. (i) 100
- (ii) 1234321
- (iii) 13
- (iv) 7
- (v) 101
- (vi) Product
- (vii) 5
- (viii) ₹2.40
- (ix) 2
- (x) obtuse

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

3. (i) (d)
- (ii) (d)
- (iii) (d)

NOTE: This answer key is created by [KoolSmartLearning.com](http://KoolSmartLearning.com) for reference purpose.

- (iv) (c)  
(v) (c)  
(vi) (d)  
(vii) (a)  
(viii) (c)  
(ix) (c)  
(x) (b)
4. (i) ₹1.05  
(ii) Mule – 7 units, Donkey – 5 units  
(iii) Off  
(iv)  $\sqrt{9} + 9 \div 9 = 4$   
(v)  $1\frac{1}{6}$  days  
(vi) Bigger One  
(viii) 12  
(ix) 25% gain  
(x)  $15^\circ$
5. (i)  $11000\text{cm}^3, 1232\text{cm}^3$   
(ii)  $(\sqrt{2}x + 2y - \sqrt{3}z)^2$   
(iii)  $134^\circ$   
(iv) 48 litres  
(v) 17cm, 10cm, 22cm
6. (i) 84 years  
(ii)  $\frac{1647}{16} \pi \text{ cm}^2$  or  $323.517 \text{ cm}^2$   
(iv) 10004569  
(v) 195  
(vi) a=1,b=7