

**ANSWER KEY FOR**  
**ARYABHATTA INTER-SCHOOL MATHS COMPETITION – 2006**

**Class - VIII**

**PART - A**

1. (i) 6  
(ii) 49  
(iii) 8  
(iv)  $512 \text{ cm}^3$   
(v)  $30^\circ$   
(vi) 12.5%  
(vii) 7  
(viii) 3:8  
(ix)  $16y^3+27$   
(x) 8
2. (i) T  
(ii) T  
(iii) T  
(iv) F  
(v) F  
(vi) T  
(vii) F  
(viii) T  
(ix) F  
(x) T
3. (i) (d)  
(ii) (c)  
(iii) (b)

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

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

## PART - B

- 4. 450 \*\*
- 7.  $a = 1, b = 7$
- 8. 4cm
- 9.  $\frac{4}{7} \text{ cm}^2$
- 10.  $(x - \frac{1}{y})(x - y)$
- 11.  $x = 6a/7$
- 12. 3600
- 14. Father – 40years, Elder Son – 10years & younger son – 8 years
- 15. ₹850
- 17.  $56 \text{ cm}^2$
- 18. 10 days
- 19. 45 years
- 20. 2 cm
- 21. 7:9
- 23. (a) 35 kg  
(b) 50.4 kg  
(c) 68 kg

**\*\* Amount collected should be ₹405000 instead of ₹404500**