## ANSWER KEY FOR

## ARYABHATTA INTER-SCHOOL MATHS COMPETITION - 2007

## Class - VIII

## PART - A

1. (i) $20 x+y$
(ii) 0.85
(iii) $2 p-22$
(iv) 8
(v) 15
(vi) $19 \%$
(vii) $(x+1)(x-3)$
(viii) 0.5025 sec
(ix) 5.6
(x) 65, 126
2. (i) $T$
(ii) F
(iii) F
(iv) T
(v) $F$
(vi) F
(vii) T
(viii) F
(ix) T
(x) $\quad \mathrm{T}$
3. (i) (b)
(ii) (c)
(iii) (b)

NOTE: This answer key is created by KaolSmart.fearning.com for reference purpose.
(iv) (c)
(v) (b)
(vi) (a)
(vii) (b)**
(viii) (c)
(ix) (c)
(x) (c)

> PART - B
4. (i) $\mathbf{1 2}$ hours
(ii) 809:676
(iii) 43.75\%
5. (i)
(i) $249.48 \mathrm{~m}^{2}$
(ii) $523.908 \mathrm{~m}^{3}$
(ii) $x=9$ units
(iii) $45^{\circ}, 60^{\circ}, 75^{\circ}$
6. (i)
(a) 4\% loss
(b) ₹ 34.56
(ii) Father - $\mathbf{3 8}$ years, Son $\mathbf{- 1 2}$ years
(iii) 20 men
(iv) ₹ 169.18
7. (i) $9 \frac{1}{3} \%$ profit
(ii) ₹ 12500
(iii) ₹ 18000
8. (i) $88 \mathrm{~cm}^{2}$
(ii) $(8+2 \mathrm{~V} 7) \mathrm{cm}$
(iii) 3 V 5 cm
9. (ii) ₹ 42
(iii) $x^{2 a}-x^{a} y^{b}+y^{2 b}$
(iv) ₹ $794.31^{\text {*** }}$

NOTE: This answer key is created by KaolSmart.fearning.cam for reference purpose.
** The value of x is misprinted. It should be $x=\frac{2 t}{1+t^{2}}$
*** In the ques, the amount D paid should be ₹1265 instead of ₹1256 and the answer would be ₹800.

