

ANSWER KEY FOR

ARYABHATTA INTER-SCHOOL MATHS COMPETITION – 2007

<u>Class - VIII</u>

PART - A

1. (i) 20x + y(ii) 0.85 (iii) 2p - 22 (iv) 8 (v) 15 (vi) **19%** (vii) (x+1)(x-3) (viii) 0.5025 sec (ix) 5.6 (x) 65, 126 2. (i) Т (ii) F (iii) F (iv) Т (v) F (vi) F (vii) T (viii) F (ix) Т (x) Т 3. (i) (b) (ii) (c) (b) (iii) **NOTE:** This answer key is created by <u>KoolSmart.Learning.com</u> for reference purpose.



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

PART - B

(i) 12 hours 4. (ii) 809:676 (iii) 43.75% 5. (i) (i) 249.48m² (ii) 523.908 m³ (ii) x = 9 units (iii) 45°, 60°, 75° 6. (i) (a) 4% loss (b) ₹ 34.56 (ii) Father – 38 years, Son – 12 years (iii) 20 men (iv) ₹ 169.18 (i) $9\frac{1}{3}\%$ profit 7. (ii) ₹12500 (iii) ₹18000 (i) 88 cm² 8. (ii) (8+2√7) cm (iii) 3v5 cm (ii) ₹ 42 9. (iii) $x^{2a} - x^a y^b + y^{2b}$ (iv) ₹ 794.31 ***

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** The value of x is misprinted. It should be $x = \frac{2t}{1+t^2}$

*** In the ques, the amount D paid should be <u>₹1265</u> instead of ₹1256 and the answer would be ₹800.



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