INSTITUTE OF MATHEMATICS EDUCATION

JUNIOR MATHS OLYMPIAD – 2023 (Primary Level)		
Std. : V and VI	Question Paper Solution	Date : 05.02.2023
14752		
$\angle DBE = 60^{\circ}, \ \angle BED = 50^{\circ}$	°, $\angle BDE = 70^{\circ}$	
(i) $x = 497$ (ii) $y = 46403$		
36		
21		
ORANGE = 314968 A = 4, G = 6, E = 8, O = 3,	R = 1, V = 7, U = 5	

Q.7 8125

Q.1

Q.2

Q.3

Q.4

Q.5

Q.6

- **Q.8** `2147.6
- **Q.9** (24, 60, 108), (24, 60, 216), (24, 108, 180), (12, 108, 120), (12, 24, 540), (12, 60, 216), (12, 60, 540), and more such groups.
- **Q.10** 3

Q.11 Possible bases are 6, 7, 8, 9, 10, 11, 12

- (i) x = 6, $A + C B = (3)_6$
- (ii) x = 7, $A + C B = (4)_7$
- (iii) x = 8, $A + C B = (5)_8$
- (iv) x = 9, $A + C B = (6)_9$
- (v) x = 10, $A + C B = (7)_{10}$
- (vi) x = 11, $A + C B = (8)_{11}$
- (vii) x = 12, $A + C B = (9)_{12}$
- **Q.12** 27

Q.13 a = 1, b = 2, c = 3, d = 4