

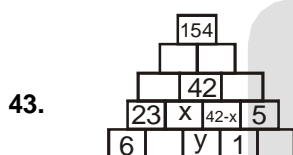
PROBLEM SOLVING ASSESSMENT(PSA)2014

CODE- 094P-E_D3

CLASS-IX

DATE : 20-112014

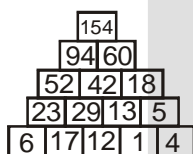
HINTS & SOLUTIONS



$$17 + y = x$$

$$42 - x = y + 1$$

from 1 & 2 $y = 12$ and $x = 29$



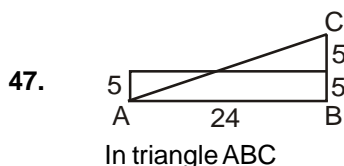
Answer is 60

- 44.
- (1) $26 = 7 \times 3 + 5$ possible
 - (2) $19 = 7 \times 2 + 5$ possible
 - (3) 23 Not possible
 - (4) $54 = 7 \times 7 + 5$ possible
- So the option (3) is correct

- 45.
- 600
 - 510
 - 420
 - 330
 - 240
 - 150
 - 060

Seven number can be found

- 46.
- 20, 20, 20
 - 25, 25, 10
 - 50, 5, 5
 - 15, 25, 20
- Four ways



$$AC = \sqrt{AB^2 + BC^2}$$

$$= \sqrt{24^2 + 10^2} = 26$$

48. QPRUTSV

49. $3 \times 8 \div 2 + 5 - 8$
 $12 + 5 - 8 = 17 - 8 = 9$

50. Year 2002
 $30 - 17 = 13$ (i.e. maximum difference between gold and bronze medal)

51. The number at the thumb that we get is of the form $8n + 1$. so
 $105 = 13 \times 8 + 1$
 105 will be at the thumb so at D we get 108

52. $10s = 2a$
 $a = 2b$
 $4b = 1m$

$$1m = 4b = 4 \times \frac{1}{2}a = 4 \times \frac{1}{2} \times \frac{10}{2} \times s = 10s$$

57. Completed % = $\frac{1152}{1501} \times 100 = 76.74\%$

Incompleted % = $\frac{349}{1501} \times 100 = 23.25\%$

so completed represent $\frac{3}{4}$ and Incompleted represent $\frac{1}{4}$ so (3) option is correct.

58. Option (3) is correct 7 matches must be play to acquire the 4th position.
 In first stage 3 matches
 In second stage 1 match
 In third stage 1 match
 In fourth stage 1 match
 1 Extra match for the fourth position
 so total matches are 7

59. Average goal per match = $\frac{171}{64} = 2.67$

60. In each group 6 matches are played as there are 8 groups so total number of matches in first stage is
 $6 \times 8 = 48$

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 Educating for better tomorrow