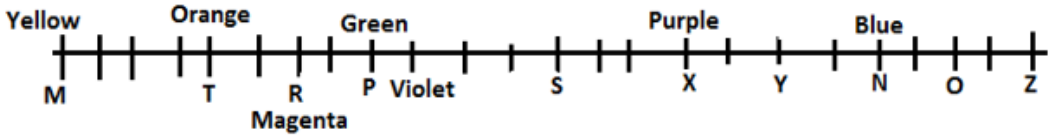
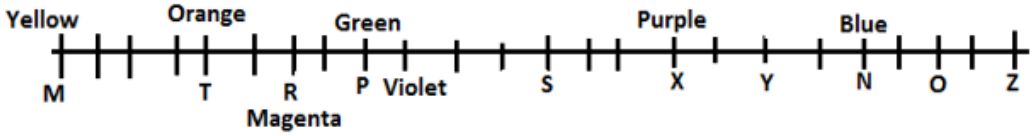
IBPS RRB PO Prelims Previous Year Mock 2018 (Solutions)

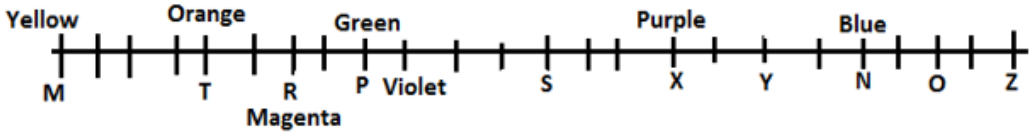
S1. Ans.(c)
Sol.



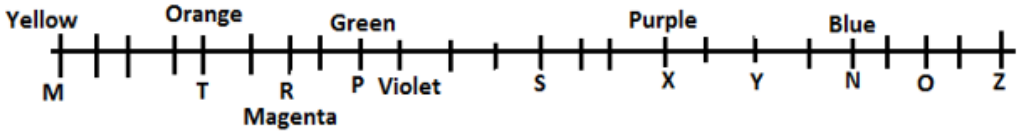
S2. Ans.(c)
Sol.



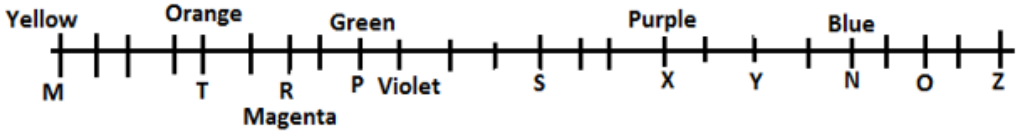
S3. Ans.(a)
Sol.



S4. Ans.(d)
Sol.



S5. Ans.(d)
Sol.



S6. Ans.(a)
Sol. C>B (True), E<B (False)

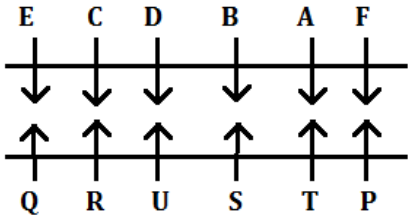
S7. Ans.(c)
Sol. G>T (False), G=T (False)

S8. Ans.(b)
Sol. T>O (False), V<O (True)

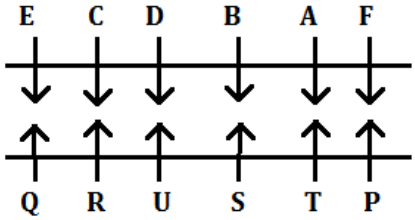
S9. Ans.(a)
Sol. A<D (True), F≤B (False)

S10. Ans.(d)
Sol. N<P (False), K<O (False)

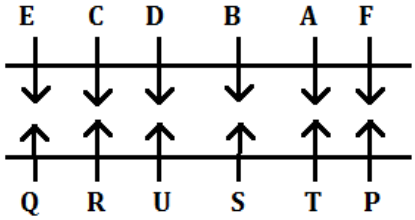
S11. Ans.(c)
Sol.



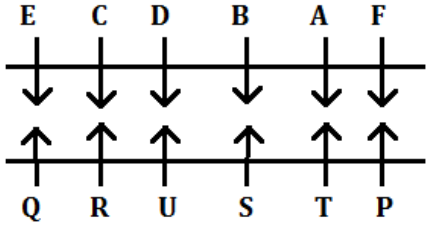
S12. Ans.(a)
Sol.



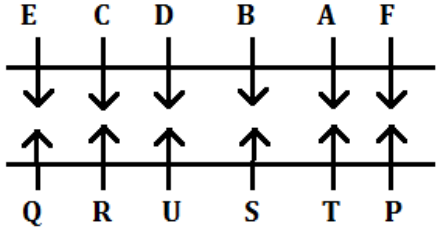
S13. Ans.(c)
Sol.



S14. Ans.(d)
Sol.



S15. Ans.(e)
Sol.



S16. Ans.(e)

Sol.

E
F
D
A
M
K
Y
G
P
S
Z

S17. Ans.(c)

Sol.

E
F
D
A
M
K
Y
G
P
S
Z

S18. Ans.(d)

Sol.

E
F
D
A
M
K
Y
G
P
S
Z

S19. Ans.(a)

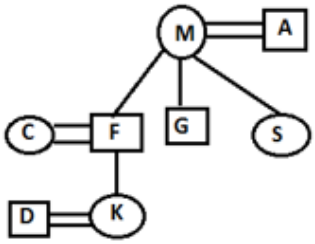
Sol.

E
F
D
A
M
K
Y
G
P
S
Z

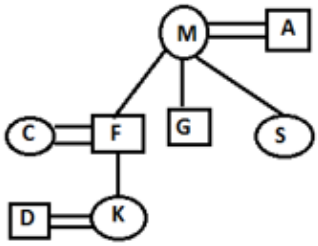
S20. Ans.(b)
Sol.

E
F
D
A
M
K
Y
G
P
S
Z

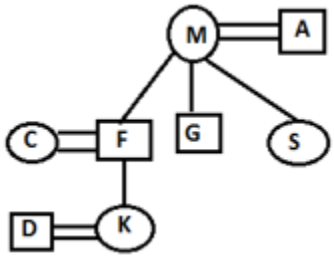
S21. Ans.(d)
Sol.



S22. Ans.(a)
Sol.



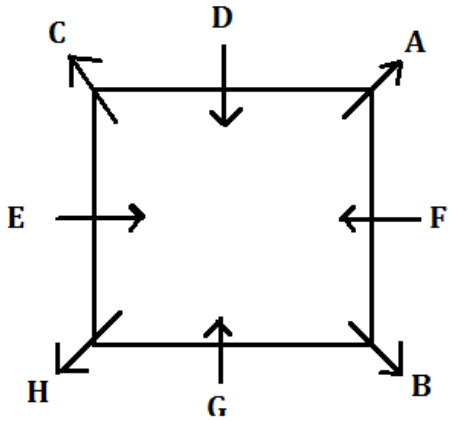
S23. Ans.(a)
Sol.



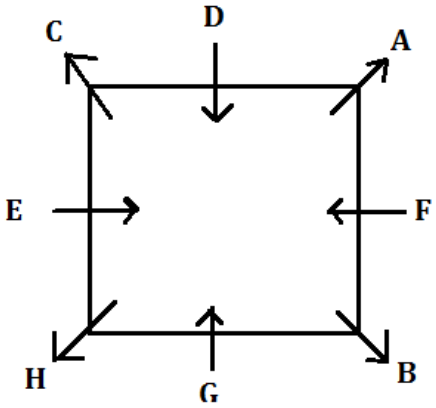
S24. Ans.(d)
Sol. There will be one meaningful word i.e. SPAM

S25. Ans.(d)

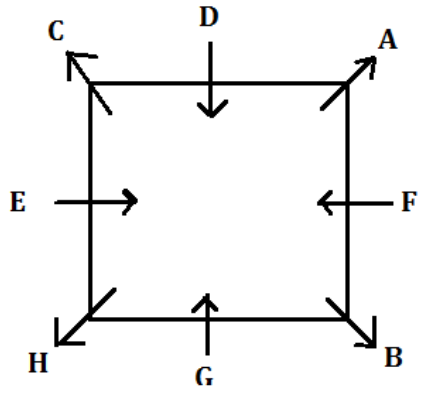
S26. Ans.(d)
Sol.



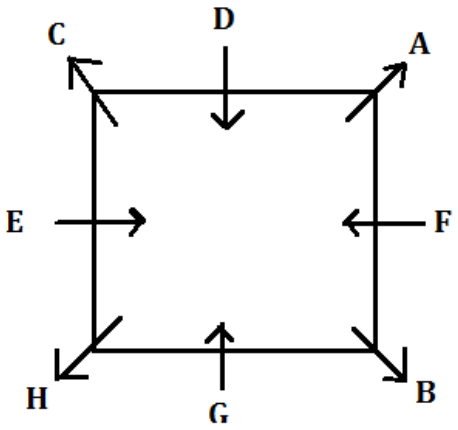
S27. Ans.(e)
Sol.



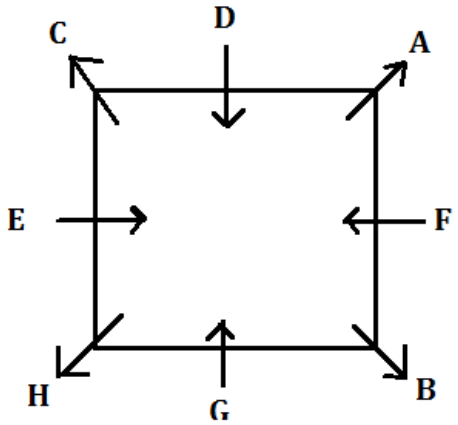
S28. Ans.(b)
Sol.



S29. Ans.(c)
Sol.



S30. Ans.(a)
Sol.



S31. Ans.(c)
Sol.

Floor	Person
10	G
9	H
8	D
7	E
6	A
5	F
4	C
3	B
2	J
1	K

S32. Ans.(a)
Sol.

Floor	Person
10	G
9	H
8	D
7	E
6	A
5	F
4	C
3	B
2	J
1	K

S33. Ans.(d)
Sol.

Floor	Person
10	G
9	H
8	D
7	E
6	A
5	F
4	C
3	B
2	J
1	K

S34. Ans.(c)
Sol.

Floor	Person
10	G
9	H
8	D
7	E
6	A
5	F
4	C
3	B
2	J
1	K

S35. Ans.(b)
Sol.

Floor	Person
10	G
9	H
8	D
7	E
6	A
5	F
4	C
3	B
2	J
1	K

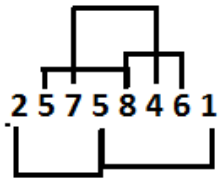
S36. Ans.(b)
Sol. From second statement we can find out the number of boys in second half row.
Hence second statement alone is sufficient to answer the question.

S37. Ans.(a)
Sol. Using only first statement, we can say that Q is the best movie.

S38. Ans.(a)
Sol. Only I is sufficient.

S39. Ans.(e)
Sol. From first and second statement together, we can say that silk is coded as "de".
Hence both the statements taking together are sufficient to answer the question.

S40. Ans.(c)
Sol.



S41. Ans.(a)
Sol.
Let Neha salary be $100x$

$\Rightarrow 100x \times \frac{60}{100} \times \frac{60}{100} = 86400$

$\Rightarrow 100x = 2,40,000$

S42. Ans.(d)

Sol.

Area of square = 324 cm

Side of square = 18 cm

Length of rectangle = 18 + 6 = 24 cm

Breadth of rectangle = $\frac{4\times18-2\times24}{2}$ = 12 cm

24 × 12 = 288 cm^2

S43. Ans.(c)

Sol.

Let radius → 7x, 4x

Required ratio = $\frac{(7x)^2\times\pi}{(4x)^2\times\pi} = \frac{49}{16}$

S44. Ans.(e)

Sol.

Profit Ratio

A : B

$x \times 12$: 15000 × 6

X : 7500

Where x = A's investment

$\Rightarrow \frac{x}{x+7500} = \frac{18000}{33000}$

x = 9000 Rs.

S45. Ans.(c)

Sol.

Let his initial investment = $100x$

Interest after 2 year $\Rightarrow 100x\left[\left(1+\frac{20}{100}\right)^2-1\right] = 44x$

Interest earned after 2 more year

$\Rightarrow [44x+480]\left[\left(1+\frac{20}{100}\right)^2-1\right] = 1760$

$100x$ = 8000

S46. Ans.(a)

Sol.

Let Y's salary = 5x

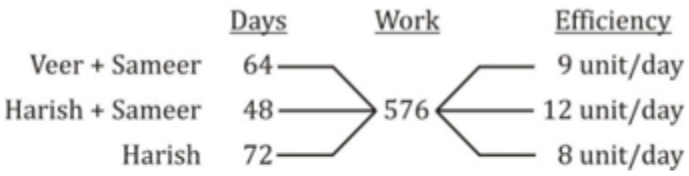
So X's salary = $\frac{5x\times120}{100} = 6x$

And Z's salary = $\frac{6x\times7}{6} = 7x$

Required percent = $\frac{\frac{30}{100}\times5x}{\frac{28\frac{4}{7}}{100}\times7x}\times100$

$= \frac{1.5x}{2x}\times100 = 75\%$

S47. Ans.(d)
Sol.



Efficiency of Sameer = 12 − 8 = 4 unit/day

Efficiency of Veer = 9 − 4 = 5 unit/day

(Veer + Harish) together = $\frac{576}{(8+5)} = 44\frac{4}{13}$ days

S48. Ans.(c)
Sol.

Ratio of time taken

Downstream : Upstream
3 : 5

Speed ratio

Downstream : Upstream
5 : 3

Ratio of speed of boat to speed of stream
4 : 1

Let speed of stream = x
So speed of boat = $4x$

Now, $\frac{60}{4x+x} = 4$

$x = 3$

S49. Ans.(a)
Sol.

Let amount taken from mixture
A and mixture B → $3x$ and $4x$ respectively
Now milk

$\frac{4}{9} \times 3x + \frac{5}{12} \times 4x = 72$

x = 24 liter

Water in final mixture

$= \frac{5}{9} \times 72 + \frac{7}{12} \times 96$

= 96 ltr.

S50. Ans.(c)
Sol.

Initial total weight = 30 × 20

Addition in weight = 5 × 50 − 5 × 20 = 150

New average = $\frac{600+150}{20} = 37.5$

Required percentage = $\frac{37.5-30}{30} \times 100 = 25\%$

S51. Ans.(a)

Sol.

School – C

No. of student passed in class X

$\Rightarrow \frac{450\times50}{100} = 225$

No. of student passed in class XII

$= \frac{500\times54}{100} = 270$

Required percent $= \frac{270-225}{270} \times 100 = 16\frac{2}{3}\%$

S52. Ans.(b)

Sol.

In school B

Passed student in XII in 2018

$= \frac{550\times70}{100} \times \frac{8}{7} = 440$

Failed student in 2018 $= \frac{550\times30}{100} = 165$

Total student in XII in 2018 = 440 + 165 = 605

S53. Ans.(c)

Sol.

Required ratio $= \frac{\frac{800\times60}{100}+\frac{600\times40}{100}}{\frac{500\times80}{100}+\frac{600\times80}{100}}$

$= \frac{480+240}{400+480} = \frac{9}{11}$

S54. Ans.(d)

Sol.

Required average $= \frac{\frac{600\times30}{100}+\frac{450\times50}{100}+\frac{800\times40}{100}}{3}$

$= \frac{180+225+320}{3}$

$= \frac{725}{3} = 241.67$

S55. Ans.(a)

Sol.

Passed student of class X of school B

$= \frac{600\times70}{100} = 420$

Passed student of class XII of school B

$= \frac{550\times70}{100} = 385$

Required difference ⇒ 420 – 385 = 35

S56. Ans.(c)

Sol.

Let share of A and D be $6x$ and $5x$ respectively

And

$C - D = \frac{1}{9} \times 90000$

$C - 5x = 10000$

$C = 10,000 + 5x$

and

$D = E + 3000$

$5x = E + 3000$

$E = 5x - 3000$

Share of B $= \frac{10}{9} \times 6x = \frac{20}{3}x$

So,

$90000 = 6x + \frac{20}{3}x + 5x + 10,000$

$+5x + 5x - 3000$

$90000 = 21x + \frac{20}{3}x + 7000$

$90000 = \frac{83x}{3} + 7000$

$\frac{83}{3}x = 83000$

$x = 3000$

Share of A = 18000

Share of B = 20000

Share of C = 25000

Share of E = 12000

Required ratio = 18000 : 12000

= 3 : 2

S57. Ans.(e)

Sol.

Let share of A and D be $6x$ and $5x$ respectively

And

$C - D = \frac{1}{9} \times 90000$

$C - 5x = 10000$

$C = 10,000 + 5x$

and

$D = E + 3000$

$5x = E + 3000$

$E = 5x - 3000$

Share of B $= \frac{10}{9} \times 6x = \frac{20}{3}x$

So,

$90000 = 6x + \frac{20}{3}x + 5x + 10{,}000$

$+5x + 5x - 3000$

$90000 = 21x + \frac{20}{3}x + 7000$

$90000 = \frac{83x}{3} + 7000$

$\frac{83}{3}x = 83000$

$x = 3000$

Share of A = 18000

Share of B = 20000

Share of C = 25000

Share of E = 12000

S.I. obtained by A = $\frac{18000\times15\times2}{100}$ = 5400

C.I. obtained by D = $15000\left(1+\frac{12}{100}\right)^2 - 15000$

= $15000\left[\left(\frac{784}{625}-1\right)\right]$

= $15000 \times \frac{159}{625}$

= $600 \times \frac{159}{25}$

= 24×159

= 3816

Required difference = 5400 – 3816 = 1584

S58. Ans.(a)

Sol.

Let share of A and D be $6x$ and $5x$ respectively

And

$C - D = \frac{1}{9} \times 90000$

$C - 5x = 10000$

C = 10,000 + $5x$

and

D = E + 3000

$5x$ = E + 3000

E = $5x$ – 3000

Share of B = $\frac{10}{9} \times 6x = \frac{20}{3}x$

So,

$90000 = 6x + \frac{20}{3}x + 5x + 10{,}000$

$+5x + 5x - 3000$

$90000 = 21x + \frac{20}{3}x + 7000$

$90000 = \frac{83x}{3} + 7000$

$\frac{83}{3}x = 83000$

$x = 3000$

Share of A = 18000

Share of B = 20000

Share of C = 25000

Share of E = 12000

Required percentage = $\frac{25000-18000}{18000} \times 100$

$= \frac{7000}{18000} \times 100$

$= \frac{700}{18}\%$

$= \frac{350}{9}\%$

$= 38\frac{8}{9}\%$

S59. Ans.(b)

Sol.

Let share of A and D be $6x$ and $5x$ respectively

And

$C - D = \frac{1}{9} \times 90000$

$C - 5x = 10000$

C = 10,000 + $5x$

and

D = E + 3000

$5x$ = E + 3000

E = $5x$ − 3000

Share of B = $\frac{10}{9} \times 6x = \frac{20}{3}x$

So,

$90000 = 6x + \frac{20}{3}x + 5x + 10{,}000$

$+5x + 5x - 3000$

$90000 = 21x + \frac{20}{3}x + 7000$

$90000 = \frac{83x}{3} + 7000$

$\frac{83}{3}x = 83000$

$x = 3000$

Share of A = 18000

Share of B = 20000

Share of C = 25000

Share of E = 12000

Required ratio = $\frac{18000+15000}{20000+12000} = 33 : 32$

S60. Ans.(c)

Sol.

Let share of A and D be $6x$ and $5x$ respectively

And

$C - D = \frac{1}{9} \times 90000$

$C - 5x = 10000$

$C = 10,000 + 5x$

and

$D = E + 3000$

$5x = E + 3000$

$E = 5x - 3000$

Share of $B = \frac{10}{9} \times 6x = \frac{20}{3}x$

So,

$$90000 = 6x + \frac{20}{3}x + 5x + 10,000$$

$+5x + 5x - 3000$

$90000 = 21x + \frac{20}{3}x + 7000$

$90000 = \frac{83x}{3} + 7000$

$\frac{83}{3}x = 83000$

$x = 3000$

Share of A = 18000

Share of B = 20000

Share of C = 25000

Share of E = 12000

Ratio of share of profit of D and E

$= 15000 \times 12 : 12000 \times x$

$= 15 : x$

$\frac{15}{15+x} = \frac{30000}{46000}$

$46000 = 30000 + 2000x$

$x = 8$

S61. Ans.(d)

Sol.

$? = \frac{55}{100} \times 320 + \frac{88}{100} \times 400$

$? = 176 + 352$

$? = 528$

S62. Ans.(b)
Sol.
$\sqrt{?} = \sqrt{144 - 162 + 26}$
$\sqrt{?} = \sqrt{8}$
$\Rightarrow ? = 8$

S63. Ans.(d)
Sol.
$\frac{?\times 48}{27} = \frac{288}{18} \times 9 \Rightarrow ? = 81$

S64. Ans.(e)
Sol.
$(15)^2 + (?)^2 = 24 \times 22 + 23 \times 6$
$\Rightarrow ?^2 = 528 + 138 - 225$
$\Rightarrow ?^2 = 441$
$\Rightarrow ? = 21$

S65. Ans.(c)
Sol.
$? + 312 + 2^5 = 4^5 - 17 \times 5$
$\Rightarrow ? = 1024 - 85 - 312 - 32$
$\Rightarrow ? = 595$

S66. Ans.(b)
Sol.
Let mark price = 100x

So, cost price = $\frac{100x\times 75}{100}$ = 75x

Selling price = $\frac{100x\times 85}{100}$ = 85x

ATQ—

85x = 34

$x = \frac{2}{5}$

CP = 30,

MP = 40

Total profit on selling 18 articles

→ (34 – 30) × 18 = 72

S67. Ans.(e)

Sol.

10 years ago

Let Akshay's Age → $3x$

So, Rahul's age 10 year ago → $4x$

Now,

$\left(\frac{4x+16}{3x+16}\right) \times 100 = 120$

Akshay's present age = 3 × 8 + 10 = 34

S68. Ans.(a)

Sol.

Let Rohit salary be 100x

Investment decided by him in FD→ $\frac{100x \times 21}{100} = 21x$

Actual Investment done= 8127

$\Rightarrow 8127 = 21x \times \frac{86}{100}$

$\Rightarrow x = 450$

Total salary = 450 × 100 = 45000

S69. Ans.(d)

Sol.

Let length and speed of train is L and x respectively

Now, $\frac{L+180}{x} = 20$ ...(i)

$\Rightarrow \frac{L}{x} = 8$ ...(ii)

L = 120 mter

x = 15 meter/sec

Required time = $\frac{120+240}{15}$ = 24 second.

S70. Ans.(a)

Sol.

Required probability = $\frac{^4C_2}{^{12}C_2} = \frac{4 \times 3}{12 \times 11} = \frac{1}{11}$

S71. Ans.(e)

Sol. Total People = 40 + 42 + 40 + 60 = 182

S72. Ans.(b)

Sol. Required difference = [62 + 54] – [50 + 40] = 26

S73. Ans.(c)
Sol.

Required average $= \frac{62+60+30+40}{4} = \frac{192}{4} = 48$

S74. Ans.(d)
Sol.

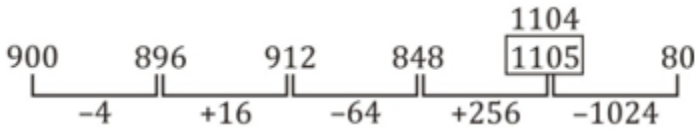
People who visited on Friday

$= \frac{40\times120}{100} + \frac{60\times130}{100} = 126$

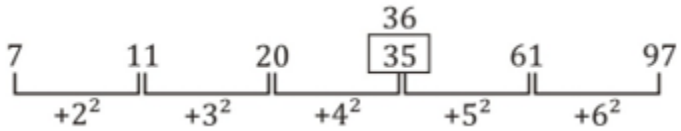
S75. Ans.(a)
Sol.

Required percent $= \frac{60}{60} \times 100 = 100\%$

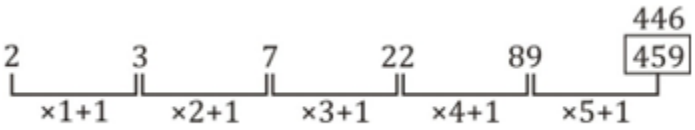
S76. Ans.(d)
Sol.



S77. Ans.(b)
Sol.

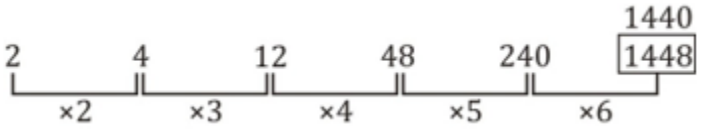


S78. Ans.(c)
Sol.

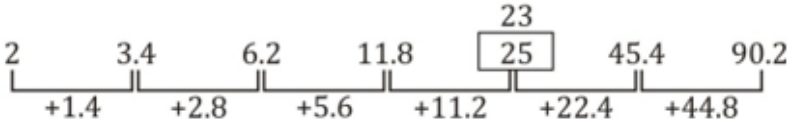


89 × 5 + 1 = 446

S79. Ans.(d)
Sol.



S80. Ans.(a)
Sol.



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