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0

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3

00000 0

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3 00000 0

0

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57



∴

~~⊗~~

{ } 0

~~⊗~~

{ } 0

~~⊗~~

{ } 0

{ }

∴

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+

×

×

= × + × ×

∴





$$= \left\{ \frac{\quad}{\quad} + \quad \right\}^2$$



 [1] :-

100

10

:-

1- 0

2- 0

3- 0

:- { }

$$= x + x \times x$$





$$= \frac{2}{12} \{ \text{---} + 100 \}$$

0

∴

	[1]	[2]	[3]		[11]	[12]
	100	100	100		100	100
					{12	}

← { }

$$= \frac{12}{-12 + 1} = 78 \quad 0$$



---

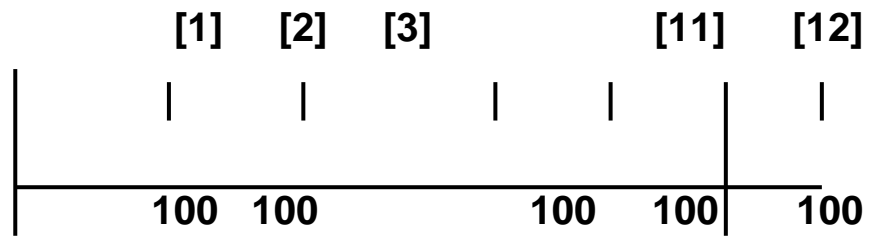
$$\begin{aligned} \text{---} &= 100 \times 12 + 100 \times \frac{10}{100} \times \frac{78}{12} \\ &= 1200 + 65 = 1265 \end{aligned}$$

∴ { }

12                      100  
   11

0

∴



---

---

{11 }

{ }

$$= \frac{12}{2} \{-11 + 0\} = 66 \quad 0$$

$$\underline{\quad} = 100 \times 12 + 100 \times \frac{10}{100} \times 66 \quad 12$$

$$= 1200 + 55 = 1255 \quad 0$$

∴

100

12

11.5

62

---

---

0

:-

	[1]	[2]	[3]		[11]	[12]
	100	100	100		100	100
					{11.5	}
						{0.5 }

$$= 12 \{11.5 + 0.5\} = 72$$

$$\text{---} = 100 \times 12 + 100 \times 10 \times 72$$



---

$$100 \quad 12$$

$$= 1200 + 60 = 1260 \quad 0$$



[2] :-

100

8

:-

1- 0

2- 0

:-

$$= \times + \times \times$$

64





$$= \frac{\{ \text{---} + \}}{2}$$

$$= 18$$

$$= 18$$

$$= 1$$

∴

	[1]	[2]	[3]		[17]	[18]
	100	100	100		100	100
					{18	}
					{	}

$$= \frac{18}{2} \{ 18 + 1 \} = 171$$



---


$$\frac{\quad}{\quad} = 100 \times 18 + 100 \times \frac{8}{100} \times \frac{171}{12}$$

$$= 1800 + 114 = 1914$$

$$= \quad - \quad$$

$$= 1914 - 1800 = 114$$

∴

$$= x + x \times x$$

$$= \frac{\quad}{2} \left\{ \quad + \quad \right\}$$

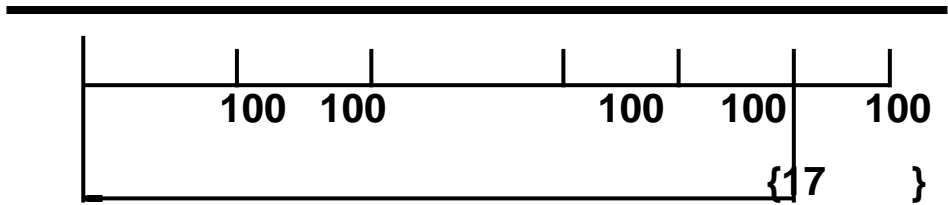
$$= 18$$

$$= 17$$

$$=$$

∴

- [1] [2] [3] [17] [18]



{ }

$$= \frac{18}{2} \{ 17 + 0 \} = 153$$

2

$$\text{---} \quad \text{---} = 100 \times 18 + 100 \times \frac{8}{100} \times \frac{153}{12}$$

$$= 1800 + 102 = 1902$$

=

-

$$= 1902 - 1800 = 102$$



[3] :-

6

100

\_\_\_\_\_

\_\_\_\_\_

67

---

6

$$= x + x \times$$
$$= \{ \text{---} + \}$$

2

= 6

= 11

= 6

:-

	[1]	[2]	[3]	[4]	[5]	[6]
	100	100	100	100	100	100
					{11	}

68

---

---

\_\_\_\_\_ {6 }  
\_\_\_\_\_

$$= \frac{6}{2} \{11 + 6\} = 51$$

$$= \times + \times \times$$

$$\begin{aligned} \text{---} \quad \text{---} &= 100 \times 6 + 100 \times \frac{6}{100} \times \frac{51}{12} \\ &= 600 + 25.5 \\ &= 625.5 \end{aligned}$$

 [4] :-

100

6

---

$$= x + x \times$$

$$= \frac{\{ \quad + \quad \}}{2}$$

18

∴

$$= \frac{\quad + 18}{2} = 9$$

0

= 16

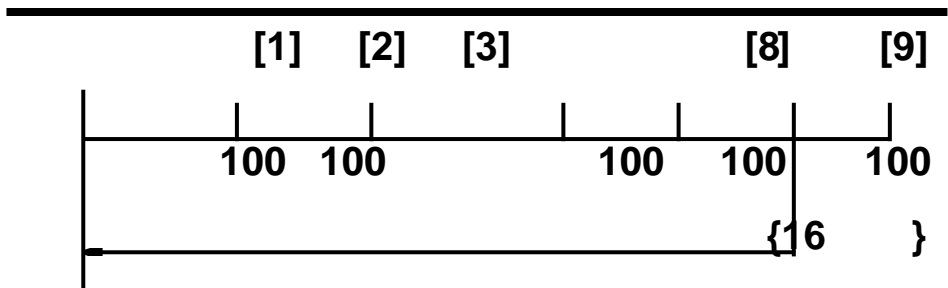
=

∴

70 

---

---



$$= \frac{9}{2} \{16 + \quad\} = 72$$

$$= \frac{9}{2} \times 100 + \frac{6}{100} \times 72$$

$$= 900 + 36$$

$$= 936$$

= -

$$= 936 - 900 = 36$$

 [5] :-

\_\_\_\_\_

\_\_\_\_\_

71



---

100

50

6

$\therefore \{100\}$

$= \times + \times \times$

$= \{ \frac{\quad}{2} + \quad \}$

2

$= 12$

$= 12$

$= 6.5$

$\therefore$

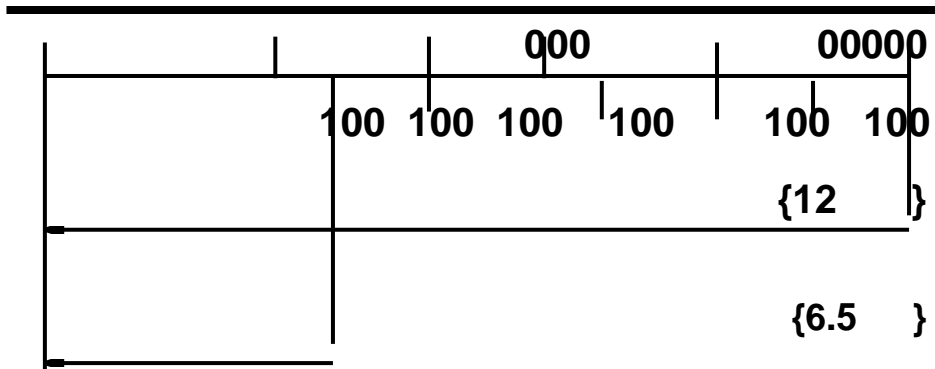
[1]

[2]

[6]

72

---



$$= \frac{12}{2} \{ 12 + 6.5 \} = 111$$

$$= \frac{100}{100} \times 12 + \frac{100}{100} \times \frac{6}{12} \times 111$$

$$= 1200 + 55.5$$

$$= 1255.5$$

∴ {50 }

$$= \frac{100}{100} \times 12 + \frac{100}{100} \times \frac{6}{12} \times 111$$

---


$$= \{ \text{---} + \}$$

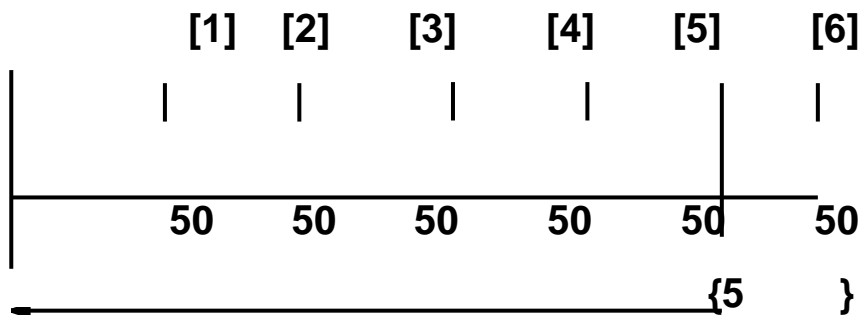
2

$$= 6$$

$$= 5$$

$$=$$

∴



{ }

$$= \frac{6}{\text{---}} \{ 5 + \text{---} \} = 15$$

$$\begin{aligned} &= \times + \times \times \\ \text{---} &= 50 \times 6 + 50 \times \frac{6}{100} \times \frac{15}{12} \\ &= 300 + 3.75 \\ &= 303.75 \end{aligned}$$

$$= +$$

$$= 1255.5 + 303.75 = 1559.25$$

 [6] :-

100

3

6

0

1-

0

2-

0

---

---

75



∴



$$= x + x \times$$

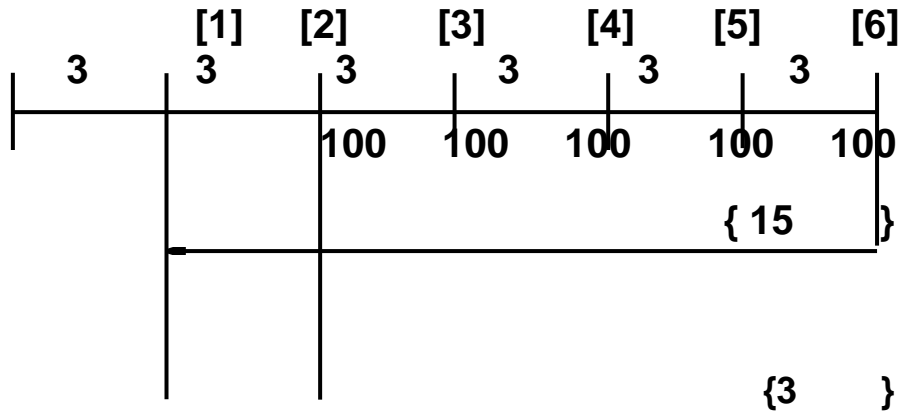
$$= \{ \frac{\quad}{2} + \quad \}$$

$$= 5$$

$$= 15$$

$$= 3$$

∴





$$= \frac{5}{2} \{ 15 + 3 \} = 45$$

$$= \frac{5}{2} \times 100 + \frac{5}{2} \times 100 \times \frac{6}{100} \times \frac{45}{12}$$

$$= 500 + 22.5$$

$$= 522.5$$

∴



$$= \frac{5}{2} \times 100 + \frac{5}{2} \times 100 \times \frac{6}{100} \times \frac{45}{12}$$

$$= 522.5$$

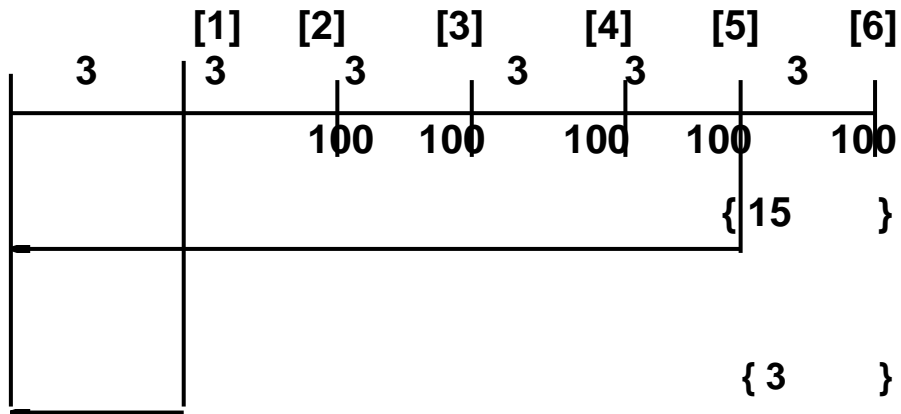


---


$$= 15$$

$$= 3$$

∴-



$$= \frac{5}{2} \{ 15 + 3 \} = 45$$

2

$$= \times + \times \times$$

$$\text{---} \text{---} = 100 \times 5 + 100 \times \frac{6}{100} \times \frac{45}{12}$$

$$= 500 + 22.5$$

$$= 522.5$$

---

522.5      0

 [7] :-

2475

6

= x + x x

---

---





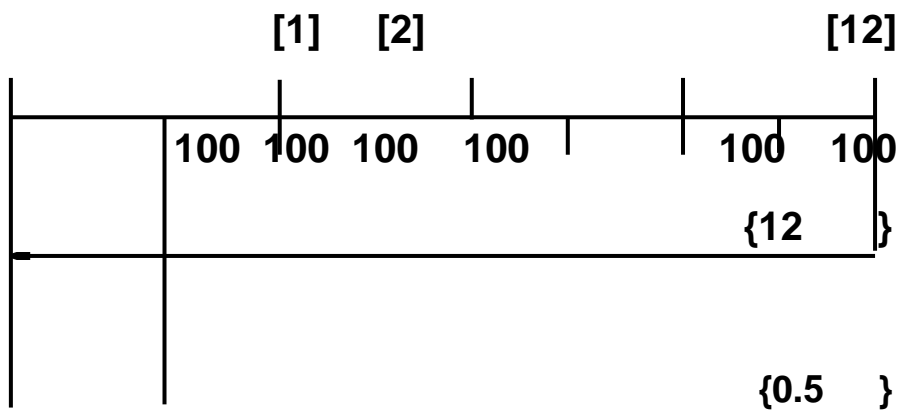
$$= \frac{\{ \text{---} + \}}{2}$$

$$= 24$$

$$= 12$$

$$= 0.5$$

:-



---


$$= 24 \sqrt{-12 + 0.5} = 150 \quad 2$$

$$\text{--- } 2475 = \begin{matrix} \times & + & \times & \times \\ \times & 24 & + & \times \frac{6}{100} \times \frac{150}{12} \end{matrix}$$

$$2475 = 24 + 0.75$$

$$2475 = 24.75$$

$$[ \quad ] = 100$$

~~✍~~ [8] :-

300

6

1867.5

3

$$= \times + \times \times$$



$$= \left\{ \frac{\quad}{2} + \right\}$$

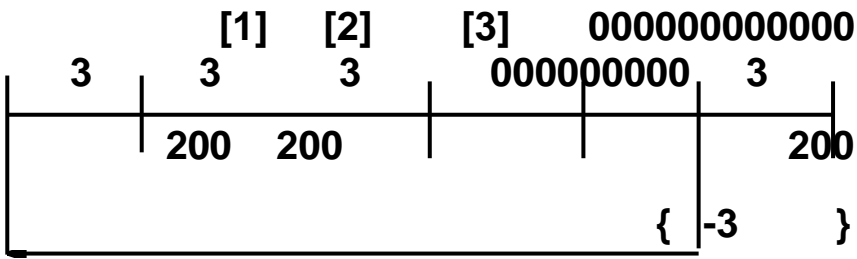
=

$$\frac{\quad}{3} = 3$$

$$= \{ -3 \}$$

=

:-



---

{ }

$$= \frac{\{ [-3] + \}}{3 \times 2}$$

$$\frac{\quad}{\quad} = \frac{2 - 3}{6}$$

$$= \times + \times \times$$

$$\frac{\quad}{\quad} 1867.5 = 300 \times \frac{\quad}{3} + 300 \times \frac{6}{100} \times \frac{2 - 3}{6 \times 12}$$

$$1867.5 = 100 + 0.25^2 - 0.75$$

$$100 + 0.25^2 - 0.75 - 1867.5 =$$

$$0.25^2 + 99.25 - 1867.5 =$$

---

---

---

∴

$$\frac{- \sqrt{2^2 - 4 \times 1 \times 1}}{2 \times 1}$$

∴

$$= 0.25 \quad = 99.25 \quad = -1867.5$$

$$\frac{-99.25 \pm \sqrt{(99.25)^2 - 4 \times 0.25 \times (-1867.5)}}{2 \times 0.25}$$

$$\frac{-99.25 \pm 11718.0625}{0.5}$$

$$\frac{-99.25 \pm 108.25}{0.5}$$



$$\frac{-99.25 + 108.25}{0.5} = 9$$

$$\{ \quad \} = 18$$

$$\frac{18}{3} = 6$$

~~9~~ [9] :-

1990

100

50

8

:-



85



$$= x + x \times$$

$$= \left\{ \frac{\quad}{2} + \right\}$$

$$= 12$$

$$= 12$$

$$= 1$$

∴-

	[1]	[2]	[3]		[11]	[12]
	100	100	100		100	100
					{12	}

---

{ }

$$= \frac{12}{2} \{-12 + 1\} = 78 \quad \begin{matrix} 0 \\ 2 \end{matrix}$$

$$\begin{aligned} &= 100 \times 12 + 100 \times \frac{8}{100} \times 78 \\ &= 1200 + 52 = 1252 \quad \begin{matrix} 78 \\ 12 \\ 0 \end{matrix} \end{aligned}$$

$$= 1252$$

∴

$$= x + x \times x$$

$$= \left\{ \frac{\quad}{2} + \quad \right\}$$



---


$$= 12$$

$$= 11$$

$$=$$

∴

[1]	[2]	[3]	[11]	[12]
50	50		50	50
{ 11				}

{ }

$$= \frac{12}{2} \{-11 + 0\} = 66 \quad 0$$

$$= 50 \times 12 + 50 \times \frac{8}{100} \times 66 \quad 12$$

$$= 600 + 22 = 622 \quad 0$$

---

$$= 622$$

$$1990 = \quad -$$

$$= 1252 - 622 = 630$$

 [10] :-

500

1000

6

:-

{500 }

$$= \times + \times \times$$

---


$$= \{ \text{---} + \}$$

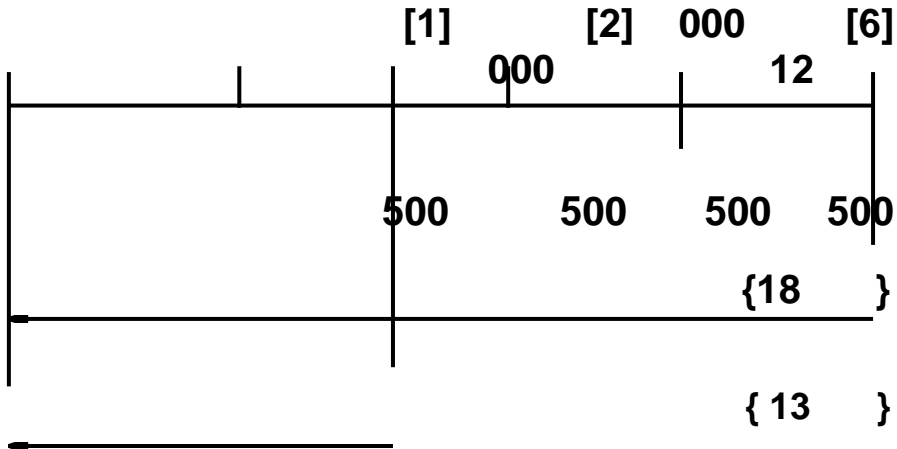
2

$$= 6$$

$$= 18$$

$$= 13$$

∴



$$= \frac{6}{\text{---}} \{ 18 + 13 \} = 93$$

$$= x + x \times$$

$$\begin{aligned} \text{---} \quad \text{---} &= 500 \times 6 + 500 \times \frac{6}{100} \times \frac{93}{12} \\ &= 3000 + 232.5 \\ &= 3232.5 \end{aligned}$$

$$\therefore \quad \{1000\}$$

$$= x + x \times$$

$$= \{ \text{---} + \}$$

2

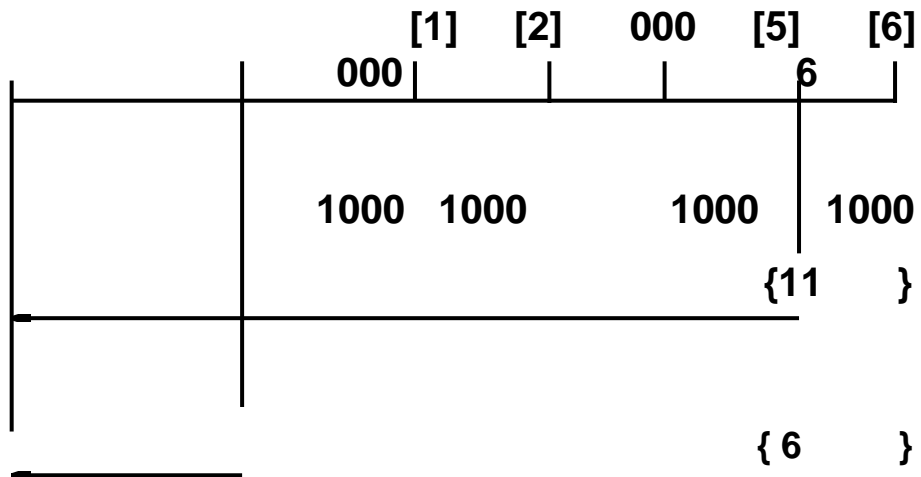
$$= 6$$

$$= 11$$

---


$$= 6$$

∴-



$$= \frac{6}{2} \{ 11 + 6 \} = 51$$

2

$$= \times + \times \times$$

$$\begin{aligned} \text{---} \quad \text{---} &= 1000 \times 6 + 1000 \times \frac{6}{100} \times \frac{51}{12} \\ &= 6000 + 255 \\ &= 6255 \end{aligned}$$

---

=

+

$$= 3232.5 + 6255 = 9487.5$$



[11] :-

1990

19110

12



2 0

∴

$$= x + x \times$$

$$= \left\{ \frac{\quad}{2} + \right\}$$

$$= 12$$

$$= 12$$

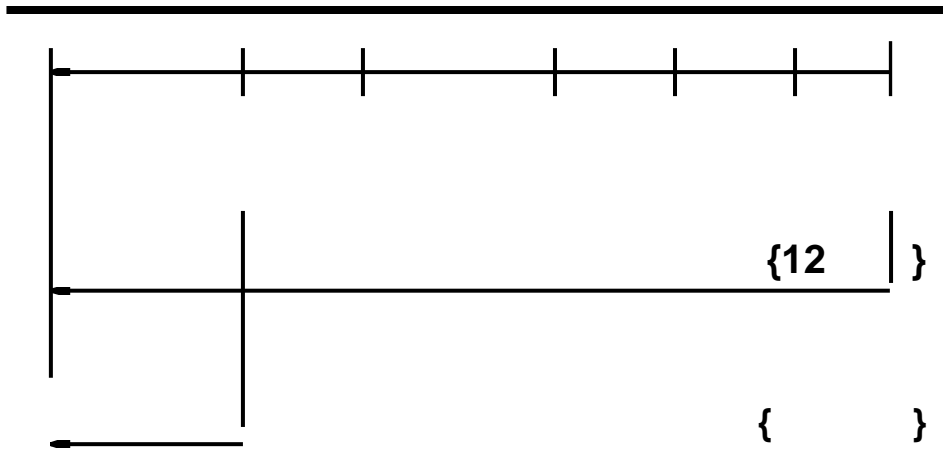
$$= 1$$

∴

[1] [2] [3]

[11] [12]





$$= \frac{12}{100} \{12 + 1\} = 78 \quad 0$$

$$\underline{\quad} = \underline{\quad} \times 12 + \quad \times \frac{12}{100} \times \frac{78}{12}$$

$$= 12 + 0.78 = 12.78 \quad 0$$

∴

$$= \times + \times \times$$

---



---


$$= \frac{\{ \text{---} + \}}{2}$$

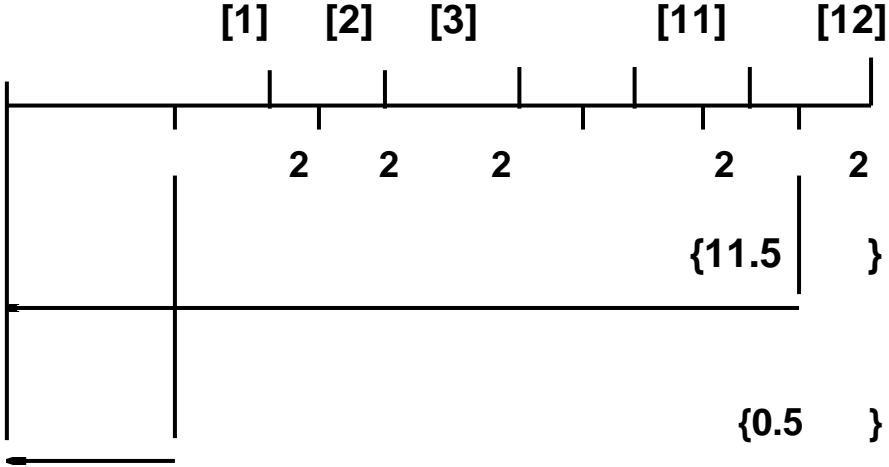
2

$$= 12$$

$$= 11.5$$

$$= 0.5$$

:-



$$= \frac{12}{2} \{11.5 + 0.5\} = 72$$

2

---


$$\frac{\quad}{\quad} = 2 \times 12 + 2 \times \frac{12}{100} \times \frac{72}{12}$$

$$= 24 + 1.44 = 25.44 \quad 0$$

$$= \quad +$$

$$19110 = 12.78 + 25.44$$

$$19110 = 38.22$$

$$= 500$$

$$[ \quad ] =$$

$$500$$

$$[2] = 1000$$

---



[12] :-

100

200

12

:-

{100 }

= x + x x

= { \_\_\_\_\_ + \_\_\_\_\_ }

2

= 12

98

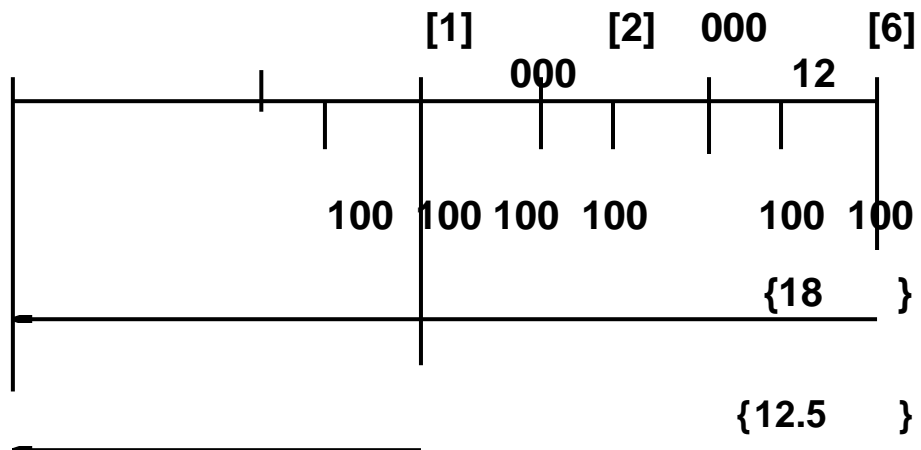
---

---


$$= 18$$

$$= 12.5$$

∴



$$= \frac{12}{2} \{ 18 + 12.5 \} = 183$$

2

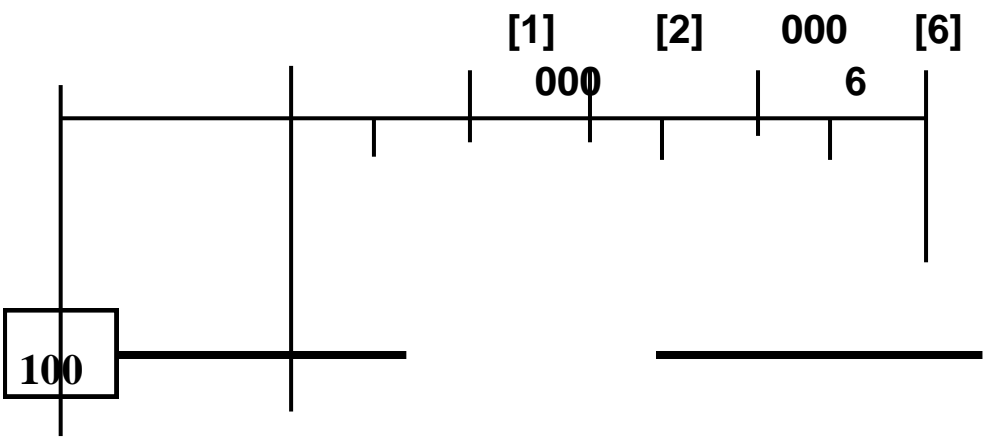
$$= x + x \times$$

$$\underline{\quad} \quad \underline{\quad} = 100 \times 12 + 100 \times 12 \times 183$$

$$\begin{aligned}
 & \overline{100} \quad \overline{12} \\
 & = 1200 + 183 \\
 & = 1383
 \end{aligned}$$

$$\begin{aligned}
 & \text{: -} \quad \{ 200 \} \\
 & = \times + \times \times \\
 & = \{ \text{---} + \} \\
 & 2 \\
 & = 12 \\
 & = 12 \\
 & = 6.5
 \end{aligned}$$

: -



$$\frac{200 \ 200 \ 200 \ 200 \quad 200 \ 200}{\{12 \ \}}$$

$$\frac{\quad}{\{6.5 \ \}}$$

$$= \frac{12}{2} \{12 + 6.5\} = 111$$

$$= \times + \times \times$$

$$\begin{aligned} \frac{\quad}{\quad} &= 200 \times 12 + 200 \times \frac{12}{100} \times \frac{111}{12} \\ &= 2400 + 222 \\ &= 2622 \end{aligned}$$

$$= \quad +$$

$$= 1383 + 2622 = 4005$$

---

1- 200

12

:-

1- 0

2- 0

3- 0

102

---

---



2-

200

12

∴-

1-

0

2-

0

3-

6

200

8







4-

200

8

5-

200

100

12

104





6-

200

3

8

0

1-

0

2-

0

7-

5000

8





8-

600

3

12

3870

9-

1990

200

100

12

10-

100



---

200

8

11-

1990

1855.5

6

---

107



12-

50

100

8

108

