

$\frac{0.5 \times 100}{100} = 0.5\%$
 $\frac{1.5 \times 100}{100} = 1.5\%$
 $\frac{2.5 \times 100}{100} = 2.5\%$

$+$
 $-$
 \times
 $/$
 $\%$

left to right
 associativity.

$5 \cdot 2 \times 3 = 3 \times 3 = 9$
 $5 \cdot 6 = 30$

$5 + 2 / 2$
 $5 + 1$
 $= 6$

$5 + 2 \times 3 / 2 \rightarrow 5 + 6 / 2$
 \downarrow
 $5 + 3 \rightarrow 8$

$7 \times 5 / 2$
 \rightarrow
 $35 / 2 \rightarrow ?$

17.5
 \downarrow
 17

$(5 + 3) \cdot 2 \times 9$
 $8 \cdot 2 \times 9$
 $16 \cdot 9$
 $= 144$

$8 - 2 \times 9$

$5 + (3 - 2) \times 9$

$5 + 1 \times 9$

$5 + 9 = 14$

Q: using for loop, calculate and return sum.

Q: sum of first 10 numbers?

for (int i = 1; i <= 10; i++)
 {
 sum += i;
 }

sum = 55
 10 * 11 / 2 = 55

120

2042?

$20 \times 4 = 80$

$2015 \rightarrow 4$
 $2014 \rightarrow 8$
 $2013 \rightarrow 12$
 \vdots
 $2042 \rightarrow ?$

$5 + 3 - 2$
 \rightarrow
 $8 - 2 = 6$

$5 + 3 - 2 \times 6$

$5 + 3 - 12$
 $8 - 12$

-4

Q: max age of data. calculate the max age in 2040.

for (int i = 0; i < 10; i++)
 {
 age = 20;
 year = 2040;
 }

2042 -> 2040 ?

Output Message: System.out.println("Message");

System.out.println("Message");

System.out.println("Message");

Q: permission for input:

i) Scanner scanner = new Scanner(System.in);
 ii) Scanner scanner = new Scanner(System.in);

i/p: input
 o/p: output

o for taking i/p of different data types, we have to follow different syntax.

i) To take int i/p: `int age = sc.nextInt();`

ii) To take String i/p: `String name = sc.nextLine();`

Q: For name, age and year as i/p from the user. Print age of user in that year.

for name: Scanner
 age: 10
 year: 2055.

o/p: Any random year age will be 42 in the year 2055.