x =

Q. a * b ** 2 + c ** 3

   let a = 1
       b = 2   } assume
       c = 8

   x = a * b ** 2 + c ** 3

   x = 1 * 2 ** 2 + 3 ** 3   ← precedence
                                     { R to L }

   x = 1 * 2 ** 2 + 27

   x = 1 * 4 + 27

   x = 4 + 27

   x = 31

Q. x = a * b ** 2 + c ** 3

   let a = 1
       b = 2   } assume
       c = 3

   x = a * b ** 2 + c ** 3

   x = 1 * 2 ** 2 + ·

Q. x = a ** b % c / d + e * b ** a

   let a = 1
       b = 2
       c = 3   x = 1 ** 2 % 3 / 4 + 5 * 2 ** 1
       d = 4
       e = 5   x = 1 ** 2 % 3 / 4 + 5 * 2

                    x = 1 % 3 / 4 + 5 * 2

                    x = 1 / 4 + 5 * 2

                    x = 0.25 + 5 * 2

                    x = 0.25 + 10

                    x = 10.25

Q1.

$$X = \underline{17/(2 * 3)} + 2$$

$$X = \underline{8.5 * 3} + 2 \qquad \text{same precedence}$$

$$X = \underline{25.5 + 2} \qquad \text{Associativity use}$$

$$X = 27.5 \qquad (L \text{ to } R)$$

Q2.

$$X = 2 + \underline{17/2} * 3$$

$$X = 2 + \underline{8.5 * 3}$$

$$X = \underline{2 + 25.5}$$

$$X = 27.5$$

Q3.

$$X = \underline{19 \% 4} + \underline{15/2 * 3} \longrightarrow$$

rem: 3

$19 \% 4$

~~~~ ~~15/2~~ 3

~~~~ ~~19%~~

~~~~

$$x = \underline{19 \% 4} + 15/2 * 3$$

$$X = 3 + \underline{15/2} * 3$$

$$X = 3 + \underline{7.5 * 3}$$

$$X = 3 + 22.5$$

$$X = 25.5$$

Q4.

$$X = \underline{(15 + 16)} - 10 * 4$$

$$X = 21 - \underline{10 * 4}$$

~~~~ $X = 21 - 40$

$$X = -19$$

Q5.

$$X = 17/2 \% 2 * \underline{3 ** 3}$$

$$X = \underline{17/2} \% 2 * 27 \qquad \lfloor 3^3 = 3 ** 3$$

$$X = \underline{8.5 \% 2} * 27$$

$$X = \underline{0.5 * 27}$$

$$X = 13.5$$