## **Mathematics**

## Covid – 19 weekly school

2<sup>nd</sup> week of February

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## **Algebraic compressions**

To revise your knowledge do the revision

## **Substitution**

By substitution of integers to unknown terms of algebraic compression we can get a numerical value for expression.

Find the value of the given expressions when  $x = \frac{1}{2}$ 

01. 
$$2x$$
 02.  $-3x$   
=  $2 \times \frac{1}{2}$  =  $-3x \times \frac{1}{2}$   
=  $1=-3/2$  =  $1\frac{1}{2}$ 

03. 
$$a = -2$$
,  $b = \frac{1}{2}$   
 $a + 2b$   
 $= -2 + (2 \times \frac{1}{2})$   
 $= -2 + 1 = -1$ 

Do the exercise 5.1

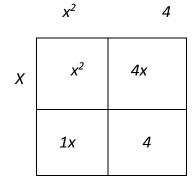
Product of two algebraic expressions

01. 
$$(x + 3) (x + 2)$$
  
 $x (x + 2) + 3 (x + 2)$   
 $x^2 + 2x + 3x + 6$   
 $x^2 + 5x + 6$ 

0 2. 
$$(x + 5) (x - 3)$$
  
 $x^2 -3x + 5x - 15$   
 $= x^2 + 2x - 15$ 

To obtain the answers of product of (x + 4) (x + 1) draw a rectangle and get the answers.

X



Area of the figure = 
$$(x + 4) (x + 1)$$
  
=  $x^2 + 4x + 1x + 4$   
=  $x^2 + 5x + 4$ 

Do the exercise 5.2