

# Mathematics

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(Chapter – 8) (Algebraic Expressions) (Try These)

(Class – VIII)

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## Question 1:

Can you think of two more such situations, where we may need to multiply algebraic expressions?

### Answer 1:

Distance covered by car in  $t$  hours = speed of car  $\times$  time period

Let distance covered =  $S$  km

Speed of car =  $v$  km/h

Time =  $t$  hours

$$\therefore s = v \times t$$

### Other situation

Population increase of a city in one years, if rate of increase is 5%.

Let current population is  $p$  lakhs

$$\text{Population after one year} = p + \frac{p \times r}{100}$$

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## Question 1:

Find  $4x \times 5y \times 7z$

First find  $4x \times 5y$  and multiply it by  $7z$ ; or first find  $5y \times 7z$  and multiply it by  $4x$ .

Is the result the same? What do you observe? Does the order in which you carry out the multiplication matter?

### Answer 1:

In case of multiplication of three numbers, changing the order of numbers result will be same. Order in which we carry out the multiplication do not matter.

$$4x \times 5y \times 7z = 5y \times 7z \times 4x$$

Here we can assume values of  $x = 2$ ,  $y = 3$  and  $z = 5$

$$4x \times 5y = 4 \times 2 \times 5 \times 3 = 120$$

$$\text{Now, } 4x \times 5y \times 7z = 60 \times 7 \times 5 = 4200$$

$$5y \times 7z = 5 \times 3 \times 7 \times 5 = 525$$

$$5y \times 7z \times 4x = 525 \times 4 \times 2 = 4200$$

$$\text{Hence, } 4x \times 5y \times 7z = 5y \times 7z \times 4x$$

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## Question 1:

Find the product (i)  $2x(3x + 5xy)$  (ii)  $a^2(2ab - 5c)$

### Answer 1:

$$(i) 2x(3x + 5xy) = 2x \times 3x + 2x \times 5xy = 6x^2 + 10x^2y$$

$$(ii) a^2(2ab - 5c) = 2a^3b - 5a^2c$$

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## Question 1:

Find the product:  $(4p^2 + 5p + 7) \times 3p$

### Answer 1:

$$(4p^2 + 5p + 7) \times 3p$$

$$= 4p^2 \times 3p + 5p \times 3p + 7 \times 3p$$

$$= 12p^3 + 15p^2 + 21p$$

# Maths Guide For Class Matriculation

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