

Chapter 5 Algebraic Manipulation

Class Activity 1

Questions

1. Classify the following expressions into different groups based on their variable parts.











4x and -5x, 3y and 7y, x^2 and $3x^2$, -6xy and 3xy.

2. There are some pink sticks of length x cm each and some green sticks of length y cm each.



v

Using the given models, express the results of the following as simply as possible.

(a)



(i) AB is formed by 2 pink sticks. Find the length of AB.

2*x* cm

(ii) CD is formed by 3 pink sticks. Find the length of CD.

3*x* cm

(iii) If AB and CD are joined together, what is the total length?

5*x* cm

(iv) Find 2x + 3x.

5*x*

(b)



(i) EF is formed by 5 green sticks. Find the length of EF.

5*y* cm

(ii) GH is formed by 2 green sticks. Find the length of GH.

2*y* cm

(iii) If a part of length GH is cut off from EF, find the length of the remaining part.

3*y* cm

(iv) Find 5y - 2y.

3*y*

(c) If AB and EF are joined together, what is the total length?

(2x + 5y) cm

Note: The expression in x and y obtained in (c) cannot be further simplified.