



# ST. FRANCIS' HIGH SCHOOL

## MATHEMETICS | SIX

### SUMMER VACATION HOMEWORK

(July & Aug – 2026)

Name of Student: \_\_\_\_\_

Roll No: \_\_\_\_\_ Section: \_\_\_\_\_

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Grade: \_\_\_\_\_

Teacher's Remarks: \_\_\_\_\_

\_\_\_\_\_

**MATHEMATICS CLASS -6**      **(JULY - 2026)**  
**SHEET # 1**

Define and give an example of the following.

Set:

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Descriptive Notation:

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Tabular Notation:

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Set-Builder Notation:

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Unit Set:

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**MATHEMATICS CLASS -6 ( July - 2026)**  
**SHEET # 2**

Q.1: Write two examples of each of the given sets.

Finite Set:

a. \_\_\_\_\_

b. \_\_\_\_\_

Infinite Set:

a. \_\_\_\_\_

b. \_\_\_\_\_

Unit Set:

a. \_\_\_\_\_

b. \_\_\_\_\_

Empty Set:

a. \_\_\_\_\_

b. \_\_\_\_\_

Q.2: Symbols used in sets:

Symbol	Meaning
: , I	
$\in$	
$\emptyset$	
$\notin$	

**MATHEMATICS CLASS -6 ( AUGUST - 2026)**  
**SHEET # 3**

Q.1: Fill in the blanks with  $\in$  and  $\notin$ .

1. 30 \_\_\_\_\_ { 1 , 2 , 3 , 4 , 5 , 6 }
2. 19 \_\_\_\_\_ { 2 , 3 , 5 , 7 , 11 , ... }
3. Bicycle \_\_\_\_\_ { car , aeroplane , bus , train }
4. 27 \_\_\_\_\_ { 1 , 4 , 9 , 16 , ... }
5. Parrot \_\_\_\_\_ { cow , goat , cat , dog }

Q.2: The given set A and B represent the same set with different notations. Write the missing elements in each of the following sets.

1. A= Letters of the word LAHORE  
B= { A , H , R , E , \_\_\_\_\_ , \_\_\_\_\_ }
2. A= {  $x$  :  $x$  is a month of the year beginning with A }  
B= { April , \_\_\_\_\_ }
3. A= {  $x$  :  $x$  is the smallest whole number }  
B= { \_\_\_\_\_ }
4. A= { 5 , 10 , 15 , 20 }  
B= {  $x$  :  $x$  is a multiple of \_\_\_\_\_ less than 25 }

**MATHEMATICS CLASS -6**      **(AUGUST - 2026)**  
**SHEET # 4**

Q.1: Define and draw the following triangles.  
Scalene Triangle

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Isosceles Triangle

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Equilateral Triangle

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Acute-angled Triangle

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Obtuse-angled Triangle

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Right-angled Triangle

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