

HARTMANN COLLEGE, BAREILLY

HOLIDAY HOMEWORK (2016-17)

CLASS – VII

MATHEMATICS

A). Make an illustrative project file on the following:-

1. Write all the letters of your name in capitals separately on A4 size sheets. Choose the sheets with letters in which you can identify the pairs of angles studied by you. Label all the lines, line segments, rays etc. in these letters and write down all the pairs of angles formed. Measure these angles and verify.

- a) Properties of angles made by parallel lines and a transversal.
- b) Sum of angles forming a linear pair.
- c) Sum of angles formed on a straight line.
- d) Measure of vertically opposite angles.

2. Make a model of a square park of dimension $50\text{ cm} \times 50\text{ cm}$. Two cross paths each 5 cm wide to be constructed parallel to the sides, passing through the centre of the park. Beautify the park and do its fencing with the help of wooden sticks. Calculate.

- a) Area of the park
- b) Area of cross roads
- c) Perimeter of the park
- d) Cost of fencing of the park at the rate of rupees 50 per unit.

B). Make a chart based on the given topic.

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| • Integers | (Roll no. 1- 10) |
| • Lines and angles | (Roll no.11-20) |
| • Unitary method | (Roll no.21-30) |
| • Properties of parallel lines | (Roll no.31-40) |
| • Fractions | (Roll no.41-50) |
| • Algebraic expressions | (Roll no.51 and above) |