

# INTERNATIONAL INDIAN SCHOOL, RIYADH

## VIII - Mathematics [Practical Geometry]

Academic Year 2012-2013

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1. Construct a quadrilateral ABCD in which  $AB = 4.4\text{cm}$ ,  $BC = 4\text{cm}$ ,  $CD = 6.4\text{cm}$ ,  $DA = 2.8\text{cm}$  and  $BD = 6.6\text{cm}$
2. Construct a parallelogram ABCD where  $AB = 3.6\text{cm}$ ,  $BC = 4.2\text{cm}$  and  $AC = 6.5\text{cm}$ .
3. Construct a rhombus with side  $6\text{cm}$  and one diagonal  $8\text{cm}$ . Measure the other diagonal.
4. Construct a quadrilateral ABCD in which  $AB = 5.5\text{cm}$ ,  $AD = 4.4\text{cm}$ ,  $CD = 6.5\text{cm}$ ,  $AC = 6.5\text{cm}$  and  $BD = 7.1\text{cm}$ .
5. Construct a rhombus COLD in which  $CL = 7.5\text{cm}$  and  $\overline{OD} = 6\text{cm}$
6. Construct a rectangle PURE in which  $PU = 5.5\text{cm}$ ,  $UR = 4\text{cm}$
7. Construct a parallelogram HARD in which  $HA = 7\text{cm}$ ,  $AR = 5\text{cm}$ ,  $\angle D = 105^\circ$ .
8. Construct a quadrilateral BIRD where  $BI = 3.5\text{cm}$ ,  $IR = 6.5\text{cm}$ ,  $\angle B = 75^\circ$ ,  $\angle I = 105^\circ$  and  $\angle R = 120^\circ$
9. Construct a quadrilateral PQRS, in which  $\angle Q = 45^\circ$ ,  $\angle R = 90^\circ$ ,  $QR = 5\text{cm}$ ,  $PQ = 9\text{cm}$  and  $RS = 7\text{cm}$ .
10. Construct a kite SOLD if  $OD = 8\text{cm}$ ,  $SD = 5\text{cm}$  and  $LD = 6\text{cm}$ . Which properties of the kite did you use in the process.
11. How will you construct a rectangle PLOT if you know only the lengths PL and LO?
12. Construct a square GOAT with  $GO = 4.9\text{cm}$
13. Construct a rhombus in which the diagonals are  $6.6\text{cm}$  and  $4.8\text{cm}$  long.

14. Construct a square ABCD, given that diagonal AC = 6cm.
15. Construct a parallelogram CARE where CA = 3.9cm and AR = 5.5cm.
16. Construct a rectangle with adjacent lengths 3.5cm and 4.5cm
17. Construct a rhombus ABCD, with side AB = 7.3cm and  $\angle A = 75^\circ$

*Prepared by Mrs. Asima Jameel, VI - VIII Girls*