

VIII - Mathematics [Practical Geometry]

Academic Year 2011-2012

1. Construct a quadrilateral ABCD in which AB = 4.4cm, BC = 4cm, CD = 6.4cm, DA = 2.8cm and BD = 6.6cm
2. Construct a parallelogram ABCD where AB = 3.6cm , BC = 4.2cm and AC = 6.5cm.
3. Construct a rhombus with side 6cm and one diagonal 8cm. Measure the other diagonal.
4. Construct a quadrilateral ABCD in which AB = 5.5cm, AD = 4.4cm, CD = 6.5cm , AC = 6.5cm and BD = 7.1cm.
5. Construct a rhombus COLD in which CL = 7.5cm $\overline{OD} = 6\text{cm}$
6. Construct a rectangle PURE in which PU = 5.5cm, UR = 4cm
7. Construct a parallelogram HARD in which HA = 7cm , AR = 5cm, $\angle D = 105^\circ$.
8. Construct a quadrilateral BIRD where BI = 3.5cm , IR = 6.5cm, $\angle B = 75^\circ$, $\angle I = 105^\circ$ and $\angle R = 120^\circ$
9. Construct a quadrilateral PQRS, in which $\angle Q = 45^\circ$, $\angle R = 90^\circ$, QR = 5cm, PQ = 9cm and RS = 7cm.
10. Construct a kite SOLD if OD = 8cm, SD = 5cm and LD = 6cm . 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 = 4.9cm
13. Construct a rhombus in which the diagonals are 6.6cm and 4.8cm 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 $\angle A = 75^\circ$