DELHI PUBLIC SCHOOL, JAMMU

(Affiliated to CBSE, Code – 730025)

Session 2018-19

Class : 7th **ASSIGNMENT-II** **Subject : Maths**

TOPIC: COMPARING QUANTIES,

PRACTICAL GEOMETRY, CONGURENCY

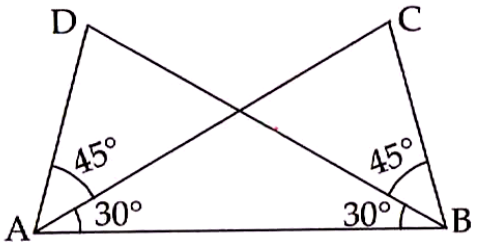
Q1: Anil obtained 375 marks out of 500 in an examination while Sunil obtained 420 marks out of 600. Whose performance is better?

Q2: The value of a car decreases annually by 20%. If the present value of the car is Rs. 3,45,000, what will be its value after 2 years?

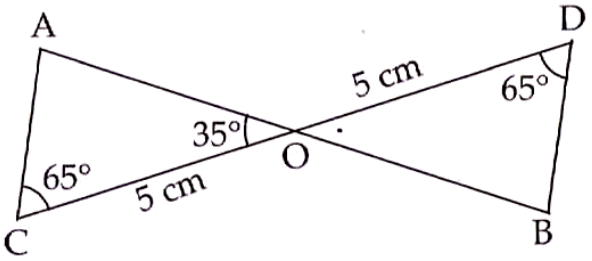
Q3: A machine was purchased for Rs. 3750 and Rs. 250 were paid for its transportation. If it is sold at a gain of Rs. 40, find the gain per cent.

Q4: By selling an article for Rs. 3600, a man makes a profit of 20%. What is the cost price of the article? What would his gain% be if he sold the article for Rs. 4000?

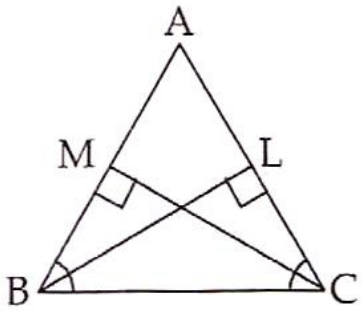
Q5: Prove that $\Delta ABC \cong \Delta BAD$ in the adjoining figure.



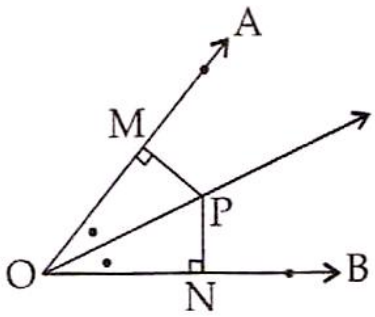
Q6: In figure, lines AB and CD intersect at O and OC = OD = 5cm, Prove that $\Delta AOC \cong \Delta BOD$.



Q7: In ΔABC, $\angle B = \angle C$, BL and CM bisects $\angle B$ and $\angle C$ respectively. Prove that BL=CM.



Q8: In the given figure, P is any point on the bisector of $\angle AOB$. If PM $\perp$ OA and PN $\perp$ OB. Prove that PM=PN.



Q9: Construct a triangle ABC in which BC = 5cm, AC = 4cm and AB = 3 cm. Measure $\angle A$.

Q10: Draw an isosceles triangle in which each of the equal sides is of length 5.3cm and the angle between them is 75^{o}.

Q11: Construct a ΔABC, in which $\angle B = 70^{o}$, $\angle C = 60^{o}$ and BC = 5.4cm.

Q12: Construct a right angled triangle PQR, where $\angle P = 90^{o}$, QR = 5.2cm and PQ=4.6cm.