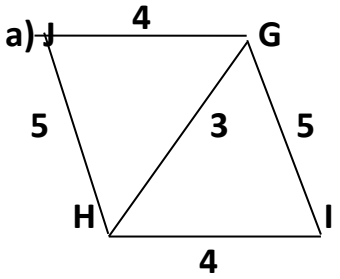
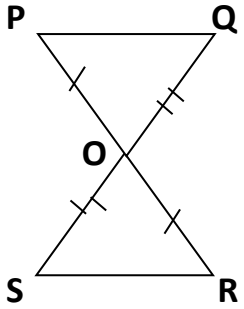
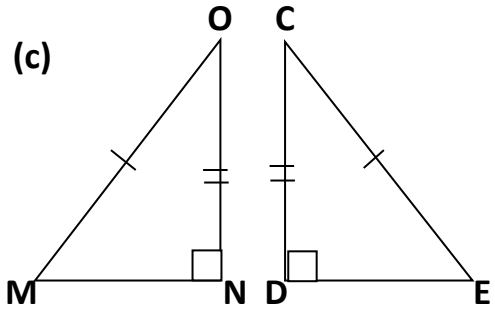
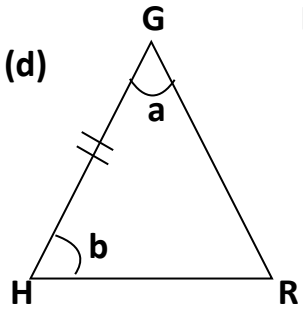
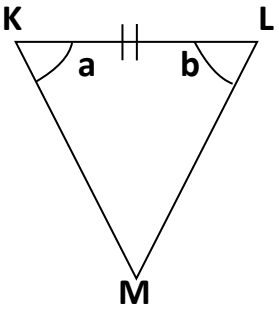
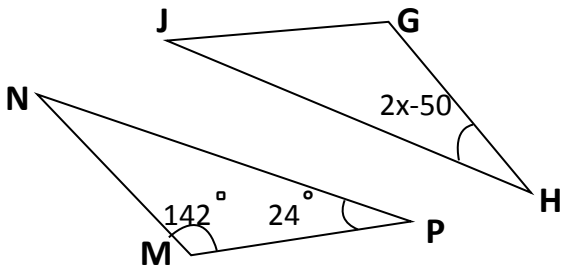
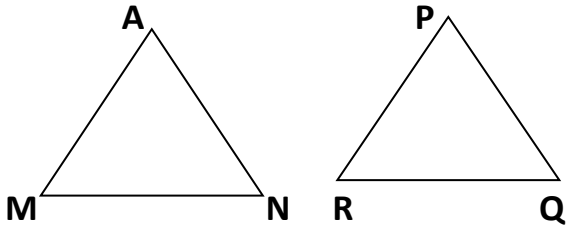
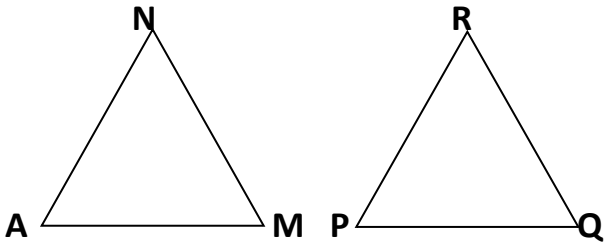
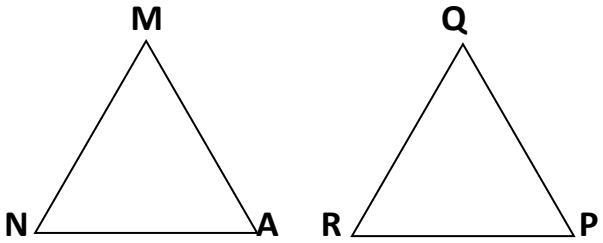
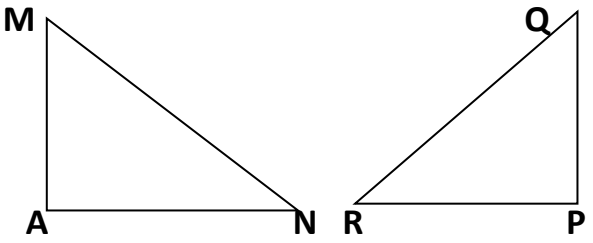
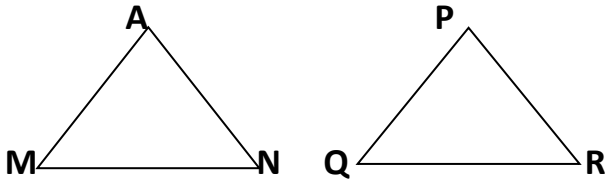
INDIAN SCHOOL MUSCAT–MIDDLE SECTION–DEPARTMENT OF MATHEMATICS – TERM:02 (2018 –19)

NAME OF THE STUDENT : **CLASS :7** **SEC :** **DATE : 27.11.18**

SUB: MATHEMATICS **TOPIC : CONGRUENCE OF TRIANGLES AND PRACTICAL GEOMETRY**

S.NO	FILL IN THE BLANKS
1	Construct a triangle PQR , PQ = 6.4cm , $\angle P = 75^0$, PR = 6cm .
2	Construct parallel lines 'l' and 'm' at distance of 6.5cm
3	Write all the corresponding parts in the congruent triangles LMN and XYZ.
4	By applying congruence rule:- (i) State the pairs of congruent triangles. (ii) Write congruence criteria. (iii) Congruence in symbolic form. a)  (b)  (c)  (d)  
5	Given $\angle M \cong \angle G$ and $\angle N \cong \angle H$, find the value of x. 
6	Construct a triangle LMN , LM = 6.8cm $\angle M = 100^0$, $\angle L = 40^0$
7	Construct a triangle ABC given that AB = 4.5 cm, AC = 5 cm, BC = 5.8 cm
8	Construct a triangle ABC, it is given that AB = 7cm, $\angle CAB = 30^\circ$ and $\angle CBA = 75^\circ$

10	**Construct an equilateral triangle ABC with each side measuring 6.2 cm.**
11	**Construct a right-angled triangle with hypotenuse 10 cm and one of its leg 5 cm long.**
12	**Construct a triangle ABC where 3 sides measures 6 cm, 5 cm, 4.5 cm.**
13	**Using the property of alternate interior angles being equal, draw 2 parallel lines.**
14	**Construct an isosceles right angled triangle ABC, where $\angle ABC = 90^\circ$ and AB = 6 cm.**
15	**Supply the missing information for Δ AMN ≅ Δ PQR.** **(i) Δ AMN ≅ Δ PQR, by SAS criteria.** **$\angle N = \angle R$, _____ , _____**  **(ii) Δ AMN ≅ Δ PQR by ASA criteria.** **AN = PR, _____ , _____.**  **(iii) Δ AMN ≅ Δ PQR by SSS criteria.** **AM = PQ , _____ , _____.**  **(iv) Δ AMN ≅Δ PQR by RHS criteria.** **$\angle A = \angle P = 90^\circ$ _____ , _____ .**  **(v) Δ AMN ≅Δ PQR by AAS criteria.** **$\angle A = \angle P$, ____ , _____.**