



NAME OF THE STUDENT :

CLASS : 7 SEC :

SUB: MATHEMATICS



WORKSHEET NO: 03

CONGRUENCE OF TRIANGLES & CONSTRUCTIONS

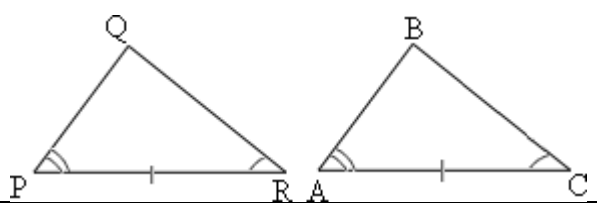
DATE : 19 .11.2017

S.NO:1	MCQ	ANSWER
(a)	<p>In the below figure, if $EF = QR$ then the congruence rule used for the congruency of the given triangles is</p> <p>a)SAS b)ASA c)RHS d)SSS</p>	
(b)	<p>In the below figure, by which congruence rule the following triangles are congruent?</p> <p>a)SAS b)ASA c)RHS d)SSS</p>	
(c)	<p>In triangles ABC and PQR, $BC = 4\text{ cm}$, $AC = 8\text{ cm}$, $AB = 3\text{ cm}$, $PQ = 4\text{ cm}$, $PR = 3\text{ cm}$, $QR = 8\text{ cm}$. By which congruence rule the triangles are congruent?</p> <p>a)SAS b)ASA c)RHS d)SSS</p>	
(d)	<p>If two triangles are _____, then their corresponding parts (i.e., angles and sides) that match one another are equal.</p> <p>a) Congruent b) similar c) not congruent d) None of these.</p>	
(e)	<p>Which angle is included between the sides QR and PR of $\triangle PQR$</p> <p>a)$\angle R$ b)$\angle Q$ c)$\angle P$ d)None of these</p>	

S.NO	ANSWER THE FOLLOWING QUESTIONS
(2)	Construct a line parallel to a given line XY and passing through a given external point P.
(3)	Construct a triangle STU in which $\angle T = 60^\circ$, $\angle U = 50^\circ$ and $TU = 5.4\text{ cm}$.
(4)	Construct a right triangle ABC in which $\angle C = 90^\circ$ and $\angle B = 30^\circ$, $CB = 6.5\text{ cm}$.
(5)	Construct an equilateral triangle in which all sides are 3.6 cm.
(6)	Draw a line parallel to a given line PQ at a distance of 4.8 cm
(7)	If $\triangle DEF$ congruent to $\triangle BCA$, write the parts of $\triangle BCA$ that correspond to i) $\angle E$ ii) EF iii) $\angle F$ iv) DF

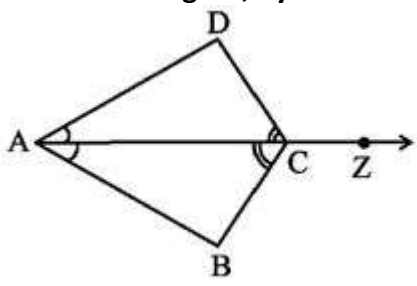
Which congruence rule can be used to prove the triangles congruent?

(8)



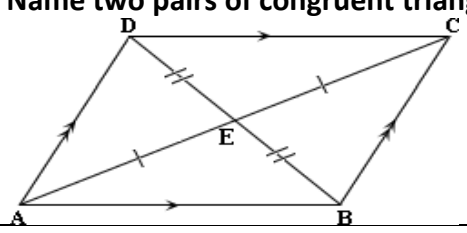
In the below figure, by which congruence rule the following triangles are congruent?

(9)



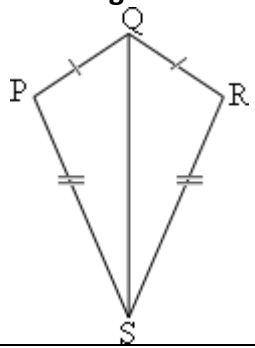
Name two pairs of congruent triangles in the figure.

(10)



In the figure shown QS is congruent to itself. Which property of congruence tells about this?

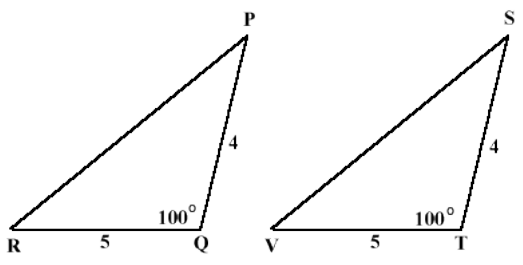
(11)



Which congruence rule can be used to prove the triangles congruent?

(12)

a)



b)

