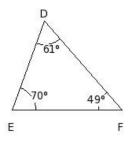
Name: Chapter Based Worksheet

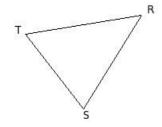
Chapter: Congruence of Triangles

Grade: CBSE Grade VII

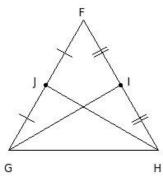
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- 1. In the given figure, $\triangle DEF \cong \triangle TSR$. Which of the following are true?
 - a) $\angle T = 70^{\circ}$
 - b) $\angle S = 70^{\circ}$
 - c) $\angle T = 61^{\circ}$
 - d) $\angle S = 49^{\circ}$
 - e) $\angle R = 49^{\circ}$
 - f) $\angle R = 61^{\circ}$

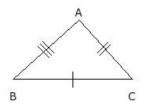


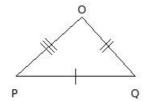


- (i) $\{d,b,c\}$ (ii) $\{f,a,e\}$ (iii) $\{b,c,e\}$ (iv) $\{d,c\}$ (v) $\{a,b\}$
- 2. With the data in the figure, $\triangle GHJ \cong \triangle HGI$ by which property?



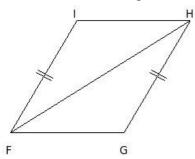
- (i) RHS Congruency (ii) SSS Congruency (iii) ASA Congruency (iv) SAS Congruency (v) not congruent
- 3. Identify the property by which the two given triangles are congruent





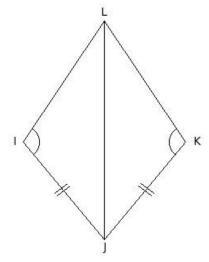
(i) ASA Congruency (ii) RHS Congruency (iii) SAS Congruency (iv) SSS Congruency





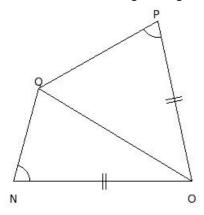
(i) not congruent (ii) SAS Congruency (iii) RHS Congruency (iv) SSS Congruency (v) ASA Congruency

5. With the data in the figure, $\triangle ILJ \cong \triangle KLJ$ by which property?



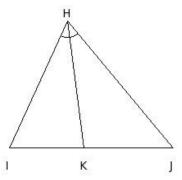
(i) ASA Congruency (ii) SSS Congruency (iii) RHS Congruency (iv) SAS Congruency (v) not congruent

6. With the data in the given figure, $\triangle NOQ \cong \triangle POQ$ by which property?



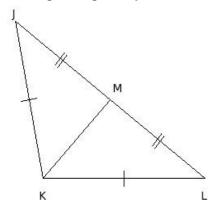
(i) SAS Congruency (ii) not congruent (iii) SSS Congruency (iv) ASA Congruency (v) RHS Congruency

7. With the data in the figure, $\triangle HKI \cong \triangle HKJ$ by which property?



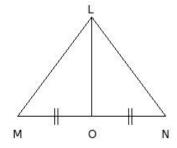
(i) SAS Congruency (ii) ASA Congruency (iii) not congruent (iv) RHS Congruency (v) SSS Congruency

8. In the given figure, $\triangle JKL$ is an obtuse angled triangle. $\triangle JKM \cong \triangle LKM$ by which property?



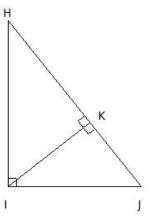
(i) RHS Congruency (ii) not congruent (iii) SSS Congruency (iv) ASA Congruency (v) SAS Congruency

9. With the data in the figure, $\triangle LOM \cong \triangle LON$ by which property?



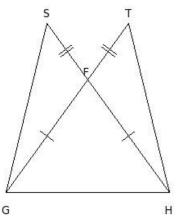
(i) ASA Congruency (ii) SAS Congruency (iii) not congruent (iv) RHS Congruency (v) SSS Congruency

10. With the data in the figure, $\triangle HKI \cong \triangle JKI$ by which property?



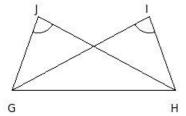
(i) SSS Congruency (ii) not congruent (iii) ASA Congruency (iv) SAS Congruency (v) RHS Congruency

11. With the data in the given figure, $\triangle SGH \cong \triangle THG$ by which property?



(i) ASA Congruency (ii) SSS Congruency (iii) not congruent (iv) SAS Congruency (v) RHS Congruency



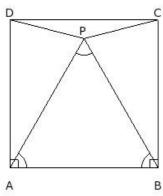


(i) RHS Congruency (ii) SSS Congruency (iii) ASA Congruency (iv) not congruent (v) SAS Congruency

13. Which of the following are true?

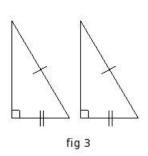
- a) A square is a polygonal region.
- b) A triangle is a polygonal region.
- c) A sector is a polygonal region.
- d) A semi-circle is a polygonal region.
- e) A circle is a polygonal region.
- (i) $\{e,c,a\}$ (ii) $\{d,b\}$ (iii) $\{d,b,a\}$ (iv) $\{c,a\}$ (v) $\{a,b\}$

14. In the given figure, ABCD is a square and $\triangle PAB$ is an equilateral triangle. $\triangle PDA \cong \triangle PCB$ by which property?



(i) RHS Congruency (ii) SAS Congruency (iii) not congruent (iv) ASA Congruency (v) SSS Congruency

15. In the given figure, which pair of triangles are not congruent?



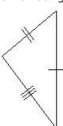
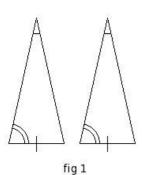


fig 4



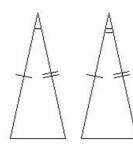
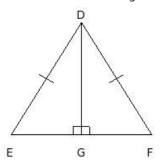


fig 2

(i) fig 1 (ii) fig 2 (iii) fig 4 (iv) fig 3

16. With the data in the given figure, $\triangle DEG \cong \triangle DFG$ by which property?



(i) SSS Congruency (ii) not congruent (iii) SAS Congruency (iv) RHS Congruency (v) ASA Congruency

17. In the given figure, which pair of triangles are not congruent?

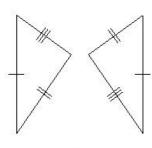


fig 3

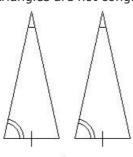
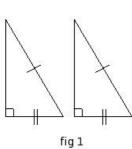


fig 4



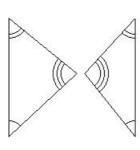
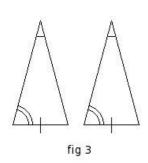


fig 2

(i) fig 4 (ii) fig 2 (iii) fig 1 (iv) fig 3

18. In the given figure, which pair of triangles are not congruent?



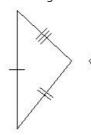
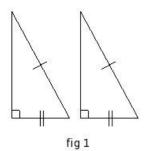


fig 4



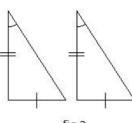
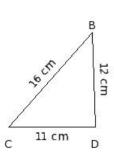


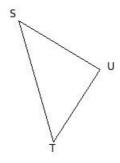
fig 2

(i) fig 4 (ii) fig 2 (iii) fig 1 (iv) fig 3

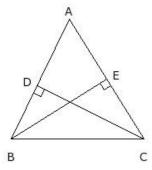


- a) US = 12 cm
- b) TU = 11 cm
- c) US = 16 cm
- d) ST = 16 cm
- e) ST = 11 cm
- f) TU = 16 cm

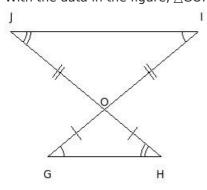




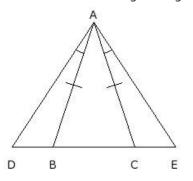
- (i) $\{a,b,d\}$ (ii) $\{f,c,d\}$ (iii) $\{e,b\}$ (iv) $\{e,a,b\}$ (v) $\{c,a\}$
- 20. With the data in the figure, $\triangle BEC \cong \triangle CDB$ by which property?



- (i) SAS Congruency (ii) ASA Congruency (iii) not congruent (iv) SSS Congruency (v) RHS Congruency
- 21. With the data in the figure, $\triangle GOH \cong \triangle IOJ$ by which property?

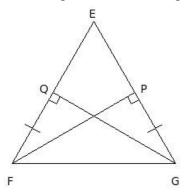


- (i) ASA Congruency (ii) SSS Congruency (iii) not congruent (iv) SAS Congruency (v) RHS Congruency
- 22. With the data in the given figure, $\triangle ABD \cong \triangle ACE$ by which property?



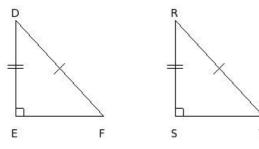
(i) not congruent (ii) SAS Congruency (iii) SSS Congruency (iv) ASA Congruency (v) RHS Congruency

23. With the given data in the figure, $\triangle QFG \cong \triangle PGF$ by which property?



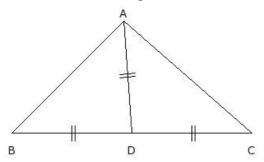
(i) RHS Congruency (ii) SAS Congruency (iii) not congruent (iv) ASA Congruency (v) SSS Congruency

24. Identify the property by which the two given triangles are congruent



(i) SAS Congruency (ii) ASA Congruency (iii) SSS Congruency (iv) RHS Congruency

25. With the data in the figure, $\triangle ADB \cong \triangle ADC$ by which property?



(i) SSS Congruency (ii) RHS Congruency (iii) ASA Congruency (iv) SAS Congruency (v) not congruent

Assignment Key					
1) (iii)	2) (v)	3) (iv)	4) (i)	5) (v)	6) (ii)
7) (iii)	8) (iii)	9) (iii)	10) (ii)	11) (iv)	12) (iv)
13) (v)	14) (ii)	15) (ii)	16) (iv)	17) (ii)	18) (ii)
19) (i)	20) (iii)	21) (iii)	22) (iv)	23) (i)	24) (iv)
25) (v)					

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