

1. In the given figure, points H , I and J are the mid-points of sides FG, GE and EF of \triangle EFG. Which of the following are true?

- a) $\triangle JFH \cong \triangle EJI$ b) $\triangle JFH \cong \triangle HIJ$ c) $\triangle EJI \cong \triangle IHG$ d) $\triangle EJI \cong \triangle HJI$



(i) {d,a} (ii) {a,b,c,e} (iii) {d,c} (iv) {d,e,a} (v) {d,b}

2. In the given figure, which of the following is true?



3. In the given figure, $\triangle BCD \cong \triangle UTS$. Which of the following are true?

- 5. In the given figure, $\triangle DEF \cong \triangle PQR$. Which of the following are true?
 - a) QR = 12 cm
 b) QR = 16 cm
 c) RP = 13 cm
 d) RP = 12 cm
 e) PQ = 12 cm
 f) PQ = 16 cm

6. In the given figure, which of the following is true?

(i) $\triangle BED \cong \triangle CDB$ (ii) $\triangle BDE \cong \triangle BCD$ (iii) $\triangle BDE \cong \triangle BDC$ (iv) $\triangle BED \cong \triangle BCD$ (v) $\triangle BDE \cong \triangle DBC$

7. With the data in the given figure, $\triangle HIK \cong \triangle HJK$ by which property?

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

8. With the data in the given figure, $\triangle OED \cong \triangle OCB$ by which property?

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

9. With the given data in the figure, $\triangle DCF \cong \triangle EBF$ by which property?

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

10. With the given data in the figure, $\triangle CDE \cong \triangle FED$ by which property?

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

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

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

12. With the data in the given figure, $\triangle EHO \cong \triangle FGO$ by which property?

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

13. With the data in the given figure, $\triangle ADC \cong \triangle ABC$ by which property?

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

14. With the data in the given figure, $\triangle HCD \cong \triangle GDC$ by which property?

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

16. In the given figure, \triangle HFG is an isosceles triangle. El \perp FG passing through H. \triangle EHF $\cong \triangle$ EHG by which property?

- (i) ASA Congruency (ii) RHS Congruency (iii) not congruent (iv) SAS Congruency (v) SSS Congruency
- 17. In the given figure, JKLM is a square and \triangle TJK is an equilateral triangle. \triangle TMJ $\cong \triangle$ TLK by which property?

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

19. With the data in the given figure, $\triangle EHF \cong \triangle EHG$ by which property?

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

20. With the data in the given figure, $\triangle EGF \cong \triangle FHE$ by which property?

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

21. With the data in the given figure, $\triangle CDG \cong \triangle CEF$ by which property?

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

22. In the given figure, $\triangle DEF$ is an obtuse angled triangle. $\triangle DEG \cong \triangle FEG$ by which property?

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

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

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

24. With the data in the figure, $\triangle JMK \cong \triangle LMK$ by which property?

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

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

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

26. With the data in the figure, $\triangle EHF \cong \triangle GHF$ by which property?

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

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

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

28. With the data in the figure, $\triangle BEC \cong \triangle CDB$ by which property?

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

29. With the data in the figure, $\triangle EHF \cong \triangle EHG$ by which property?

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

30. With the data in the figure, $\triangle HOI \cong \triangle KOJ$ by which property?

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

31. With the data in the figure, $\triangle ABD \cong \triangle BAC$ by which property?

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

32. With the data in the figure, $\triangle GIJ \cong \triangle IGH$ by which property?

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

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

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

34. With the data in the figure, $\triangle BEC \cong \triangle CDB$ by which property?

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

35. With the data in the figure, $\triangle IOJ \cong \triangle KOL$ by which property?

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

36. With the data in the figure, $\triangle GOH \cong \triangle IOJ$ by which property?

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

37. With the data in the figure, $\triangle JKM \cong \triangle KJL$ by which property?

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

38. With the data in the figure, $\triangle GHJ \cong \triangle KIJ$ by which property?

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

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

40. With the data in the figure, $\triangle CDG \cong \triangle DCH$ by which property?

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

41. With the data in the figure, $\triangle BDE \cong \triangle BDC$ by which property?

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

42. With the data in the figure, $\triangle FJI \cong \triangle GJH$ by which property?

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

43. With the data in the figure, $\triangle MNQ \cong \triangle MOR$ by which property?

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

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

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

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

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

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

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

(i) fig 4 (ii) fig 2 (iii) fig 3 (iv) fig 1 $\,$

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

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

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

Assignment Key					
1) (ii)	2) (iii)	3) (iv)	4) (ii)	5) (iv)	6) (v)
7) (iii)	8) (v)	9) (i)	10) (iv)	11) (iii)	12) (i)
13) (v)	14) (iii)	15) (i)	16) (iv)	17) (iii)	18) (iv)
19) (iii)	20) (i)	21) (iv)	22) (i)	23) (ii)	24) (ii)
25) (ii)	26) (i)	27) (iii)	28) (v)	29) (i)	30) (ii)
31) (iii)	32) (v)	33) (ii)	34) (i)	35) (v)	36) (i)
37) (iii)	38) (iii)	39) (iv)	40) (iv)	41) (v)	42) (iv)
43) (i)	44) (iii)	45) (v)	46) (i)	47) (i)	48) (i)
49) (iv)	50) (i)				

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