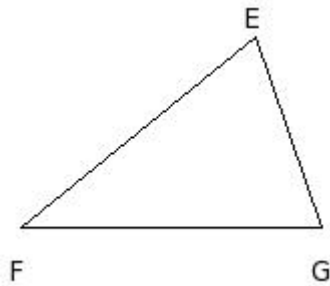


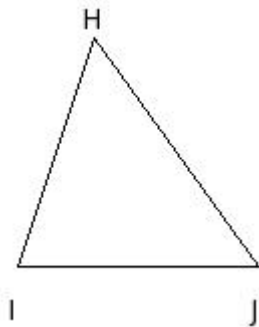
EduSahara™ Learning Center Assignment**Grade : Class VIII, ICSE****Chapter : Triangles****Name : Triangle Concepts****Licensed To : Teachers and Students for non-commercial use**

1. Identify the figure below

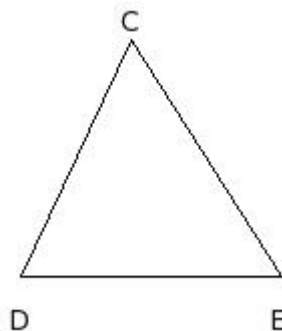


(i) angle (ii) circle (iii) quadrilateral (iv) decagon (v) triangle

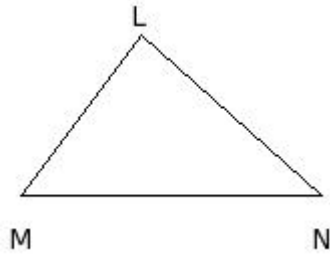
2. The side opposite to the vertex H

(i) $\overline{JH}$ (ii) $\overline{KI}$ (iii) $\overline{IJ}$ (iv) $\overline{HL}$ (v) $\overline{HI}$

3. The side opposite to the vertex D

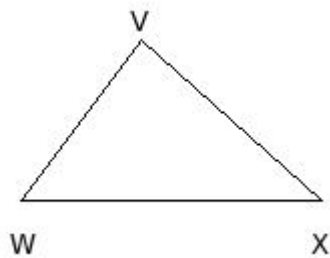
(i) $\overline{CD}$ (ii) $\overline{FD}$ (iii) $\overline{EC}$ (iv) $\overline{DE}$ (v) $\overline{CG}$

4. The side opposite to the vertex N



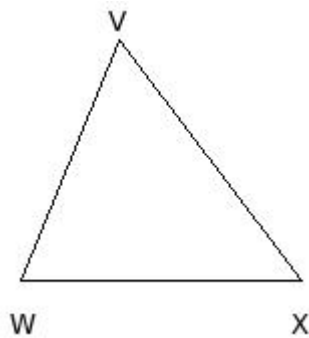
- (i) $\overline{OM}$ (ii) $\overline{MN}$ (iii) $\overline{NL}$ (iv) $\overline{LP}$ (v) $\overline{LM}$
-

5. The vertex opposite to the side $\overline{WX}$



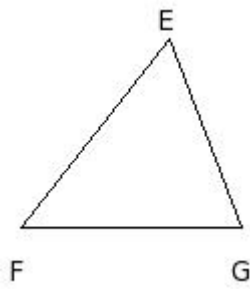
- (i) $\overline{XY}$ (ii) V (iii) Z (iv) W
-

6. The vertex opposite to the side $\overline{XV}$



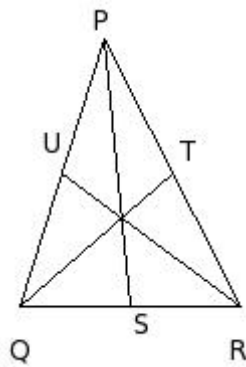
- (i) $\overline{XY}$ (ii) V (iii) W (iv) Z
-

7. The vertex opposite to the side $\overline{EF}$



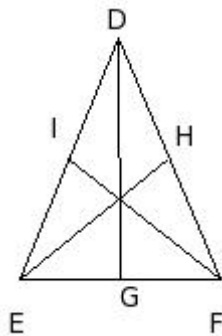
- (i) F (ii) $\overline{GH}$ (iii) E (iv) G
-

8. The median corresponding to the side $\overline{QR}$



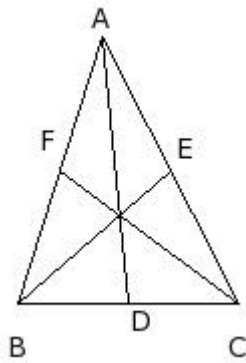
- (i) $\overline{PQ}$ (ii) $\overline{PT}$ (iii) $\overline{RU}$ (iv) $\overline{PS}$ (v) $\overline{QT}$
-

9. The median corresponding to the side $\overline{FD}$



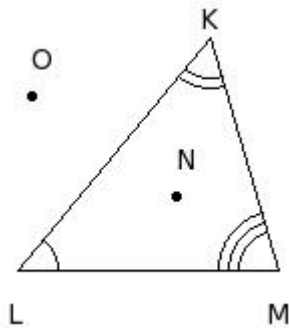
- (i) $\overline{FI}$ (ii) $\overline{DG}$ (iii) $\overline{DE}$ (iv) $\overline{DH}$ (v) $\overline{EH}$
-

10. The median corresponding to the side $\overline{AB}$



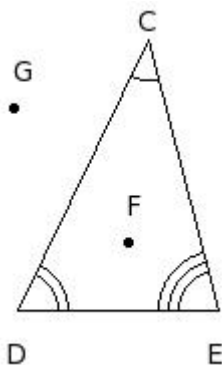
- (i) $\overline{AE}$ (ii) $\overline{AB}$ (iii) $\overline{CF}$ (iv) $\overline{BE}$ (v) $\overline{AD}$

11. The sides of the triangle are



- (i) $\overline{LM}, \overline{MK}, \overline{KL}$ (ii) $\overline{NO}, \overline{OM}, \overline{MN}$ (iii) $\overline{MN}, \overline{NL}, \overline{LM}$
 (iv) $\overline{LN}, \overline{NK}, \overline{KL}$ (v) $\overline{MO}, \overline{OL}, \overline{LM}$

12. The name of the triangle is



- (i) $\triangle CDF$ (ii) $\triangle EFG$ (iii) $\triangle CDE$ (iv) $\triangle DEG$ (v) $\triangle DEF$

13. Which of the following are measures of an equilateral triangle ?

- (i) $FG = 12 \text{ cm}$, $GH = 11 \text{ cm}$, $HF = 12 \text{ cm}$
 - (ii) $FG = 15 \text{ cm}$, $GH = 15 \text{ cm}$, $HF = 15 \text{ cm}$
 - (iii) $FG = 15 \text{ cm}$, $GH = 15 \text{ cm}$, $HF = 21.21 \text{ cm}$
 - (iv) $FG = 14 \text{ cm}$, $GH = 13 \text{ cm}$, $HF = 19.1 \text{ cm}$
 - (v) $FG = 11 \text{ cm}$, $GH = 13 \text{ cm}$, $HF = 15 \text{ cm}$
-

14. Which of the following are measures of an isosceles triangle ?

- (i) $KL = 15 \text{ cm}$, $LM = 12 \text{ cm}$, $MK = 11 \text{ cm}$
 - (ii) $KL = 13 \text{ cm}$, $LM = 12 \text{ cm}$, $MK = 17.69 \text{ cm}$
 - (iii) $KL = 11 \text{ cm}$, $LM = 15 \text{ cm}$, $MK = 11 \text{ cm}$
 - (iv) $KL = 14 \text{ cm}$, $LM = 14 \text{ cm}$, $MK = 14 \text{ cm}$
 - (v) $KL = 15 \text{ cm}$, $LM = 14 \text{ cm}$, $MK = 10 \text{ cm}$
-

15. Which of the following are measures of a scalene triangle ?

- (i) $IJ = 11 \text{ cm}$, $JK = 10 \text{ cm}$, $KI = 13 \text{ cm}$
 - (ii) $IJ = 10 \text{ cm}$, $JK = 10 \text{ cm}$, $KI = 14.14 \text{ cm}$
 - (iii) $IJ = 15 \text{ cm}$, $JK = 15 \text{ cm}$, $KI = 15 \text{ cm}$
 - (iv) $IJ = 13 \text{ cm}$, $JK = 10 \text{ cm}$, $KI = 13 \text{ cm}$
 - (v) $IJ = 10 \text{ cm}$, $JK = 15 \text{ cm}$, $KI = 10 \text{ cm}$
-

16. Which of the following are measures of a right angled triangle ?

- (i) $LM = 15 \text{ cm}$, $MN = 13 \text{ cm}$, $NL = 14 \text{ cm}$
 - (ii) $LM = 11 \text{ cm}$, $MN = 12 \text{ cm}$, $NL = 15 \text{ cm}$
 - (iii) $LM = 11 \text{ cm}$, $MN = 19 \text{ cm}$, $NL = 14 \text{ cm}$
 - (iv) $LM = 10 \text{ cm}$, $MN = 10 \text{ cm}$, $NL = 10 \text{ cm}$
 - (v) $LM = 14 \text{ cm}$, $MN = 12 \text{ cm}$, $NL = 18.44 \text{ cm}$
-

17. Which of the following are measures of an isosceles right angled triangle ?

- (i) $FG = 15 \text{ cm}$, $GH = 15 \text{ cm}$, $HF = 15 \text{ cm}$
 - (ii) $FG = 12 \text{ cm}$, $GH = 15 \text{ cm}$, $HF = 10 \text{ cm}$
 - (iii) $FG = 11 \text{ cm}$, $GH = 13 \text{ cm}$, $HF = 13 \text{ cm}$
 - (iv) $FG = 13 \text{ cm}$, $GH = 25 \text{ cm}$, $HF = 15 \text{ cm}$
 - (v) $FG = 10 \text{ cm}$, $GH = 10 \text{ cm}$, $HF = 14.14 \text{ cm}$
-

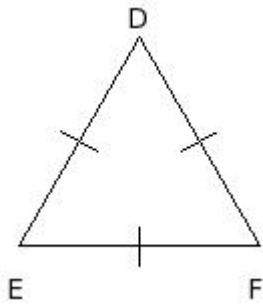
18. Which of the following are measures of an acute angled triangle ?

- (i) $CD = 12 \text{ cm}$, $DE = 14 \text{ cm}$, $EC = 15 \text{ cm}$
 - (ii) $CD = 12 \text{ cm}$, $DE = 13 \text{ cm}$, $EC = 17.69 \text{ cm}$
 - (iii) $CD = 15 \text{ cm}$, $DE = 22 \text{ cm}$, $EC = 11 \text{ cm}$
 - (iv) $CD = 11 \text{ cm}$, $DE = 11 \text{ cm}$, $EC = 15.56 \text{ cm}$
 - (v) $CD = 10 \text{ cm}$, $DE = 19 \text{ cm}$, $EC = 15 \text{ cm}$
-

19. Which of the following are measures of an obtuse angled triangle ?

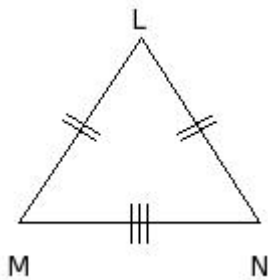
- (i) $LM = 12 \text{ cm}$, $MN = 13 \text{ cm}$, $NL = 14 \text{ cm}$
 - (ii) $LM = 15 \text{ cm}$, $MN = 15 \text{ cm}$, $NL = 21.21 \text{ cm}$
 - (iii) $LM = 14 \text{ cm}$, $MN = 12 \text{ cm}$, $NL = 13 \text{ cm}$
 - (iv) $LM = 13 \text{ cm}$, $MN = 11 \text{ cm}$, $NL = 17.03 \text{ cm}$
 - (v) $LM = 13 \text{ cm}$, $MN = 20 \text{ cm}$, $NL = 14 \text{ cm}$
-

20. Which of the following are measures of an equilateral triangle ?



- (i) $DE = 13 \text{ cm}$, $EF = 10 \text{ cm}$, $FD = 15 \text{ cm}$
 - (ii) $DE = 10 \text{ cm}$, $EF = 10 \text{ cm}$, $FD = 14.14 \text{ cm}$
 - (iii) $DE = 12 \text{ cm}$, $EF = 12 \text{ cm}$, $FD = 12 \text{ cm}$
 - (iv) $DE = 13 \text{ cm}$, $EF = 12 \text{ cm}$, $FD = 17.69 \text{ cm}$
 - (v) $DE = 12 \text{ cm}$, $EF = 15 \text{ cm}$, $FD = 12 \text{ cm}$
-

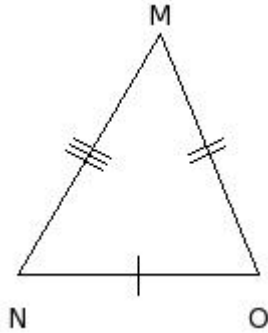
21. Which of the following are measures of an isosceles triangle ?



- (i) $LM = 13 \text{ cm}$, $MN = 10 \text{ cm}$, $NL = 14 \text{ cm}$

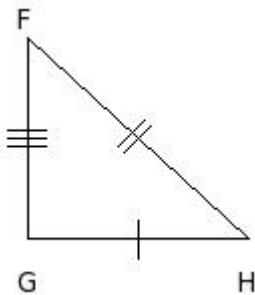
- (ii) $LM = 15 \text{ cm}$, $MN = 14 \text{ cm}$, $NL = 13 \text{ cm}$
 - (iii) $LM = 11 \text{ cm}$, $MN = 12 \text{ cm}$, $NL = 11 \text{ cm}$
 - (iv) $LM = 11 \text{ cm}$, $MN = 15 \text{ cm}$, $NL = 18.6 \text{ cm}$
 - (v) $LM = 15 \text{ cm}$, $MN = 15 \text{ cm}$, $NL = 15 \text{ cm}$
-

22. Which of the following are measures of a scalene triangle ?



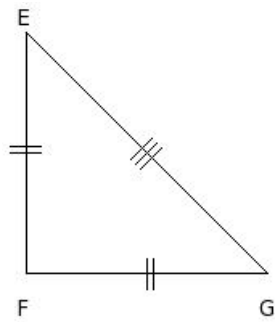
- (i) $MN = 11 \text{ cm}$, $NO = 11 \text{ cm}$, $OM = 15.56 \text{ cm}$
 - (ii) $MN = 10 \text{ cm}$, $NO = 12 \text{ cm}$, $OM = 10 \text{ cm}$
 - (iii) $MN = 14 \text{ cm}$, $NO = 12 \text{ cm}$, $OM = 13 \text{ cm}$
 - (iv) $MN = 10 \text{ cm}$, $NO = 10 \text{ cm}$, $OM = 10 \text{ cm}$
 - (v) $MN = 10 \text{ cm}$, $NO = 11 \text{ cm}$, $OM = 10 \text{ cm}$
-

23. Which of the following are measures of a right angled triangle ?



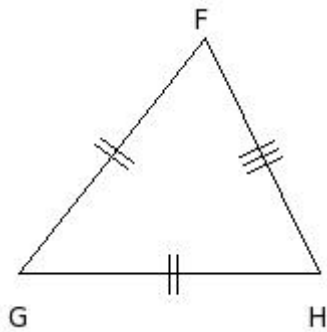
- (i) $FG = 10 \text{ cm}$, $GH = 23 \text{ cm}$, $HF = 15 \text{ cm}$
 - (ii) $FG = 11 \text{ cm}$, $GH = 10 \text{ cm}$, $HF = 11 \text{ cm}$
 - (iii) $FG = 10 \text{ cm}$, $GH = 11 \text{ cm}$, $HF = 14.87 \text{ cm}$
 - (iv) $FG = 14 \text{ cm}$, $GH = 14 \text{ cm}$, $HF = 14 \text{ cm}$
 - (v) $FG = 13 \text{ cm}$, $GH = 10 \text{ cm}$, $HF = 15 \text{ cm}$
-

24. Which of the following are measures of an isosceles right angled triangle ?



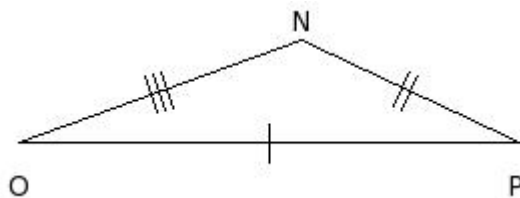
- (i) $EF = 11 \text{ cm}$, $FG = 11 \text{ cm}$, $GE = 11 \text{ cm}$
- (ii) $EF = 10 \text{ cm}$, $FG = 13 \text{ cm}$, $GE = 14 \text{ cm}$
- (iii) $EF = 15 \text{ cm}$, $FG = 15 \text{ cm}$, $GE = 21.21 \text{ cm}$
- (iv) $EF = 12 \text{ cm}$, $FG = 14 \text{ cm}$, $GE = 14 \text{ cm}$
- (v) $EF = 14 \text{ cm}$, $FG = 23 \text{ cm}$, $GE = 13 \text{ cm}$

25. Which of the following are measures of an acute angled triangle ?



- (i) $FG = 12 \text{ cm}$, $GH = 12 \text{ cm}$, $HF = 16.97 \text{ cm}$
- (ii) $FG = 12 \text{ cm}$, $GH = 14 \text{ cm}$, $HF = 18.44 \text{ cm}$
- (iii) $FG = 11 \text{ cm}$, $GH = 19 \text{ cm}$, $HF = 12 \text{ cm}$
- (iv) $FG = 14 \text{ cm}$, $GH = 24 \text{ cm}$, $HF = 14 \text{ cm}$
- (v) $FG = 15 \text{ cm}$, $GH = 15 \text{ cm}$, $HF = 13 \text{ cm}$

26. Which of the following are measures of an obtuse angled triangle ?



- (i) $NO = 12 \text{ cm}$, $OP = 15 \text{ cm}$, $PN = 19.21 \text{ cm}$
- (ii) $NO = 15 \text{ cm}$, $OP = 25 \text{ cm}$, $PN = 12 \text{ cm}$
- (iii) $NO = 14 \text{ cm}$, $OP = 14 \text{ cm}$, $PN = 13 \text{ cm}$

(iv) $NO = 13 \text{ cm}$, $OP = 13 \text{ cm}$, $PN = 18.38 \text{ cm}$

(v) $NO = 13 \text{ cm}$, $OP = 12 \text{ cm}$, $PN = 14 \text{ cm}$

27. Which of the following are measures of an equilateral triangle ?

(i) $\angle H = 56.25^\circ$, $\angle I = 73.62^\circ$, $\angle J = 50.13^\circ$

(ii) $\angle H = 97.18^\circ$, $\angle I = 41.41^\circ$, $\angle J = 41.41^\circ$

(iii) $\angle H = 42.88^\circ$, $\angle I = 90^\circ$, $\angle J = 47.12^\circ$

(iv) $\angle H = 45^\circ$, $\angle I = 90^\circ$, $\angle J = 45^\circ$

(v) $\angle H = 60^\circ$, $\angle I = 60^\circ$, $\angle J = 60^\circ$

28. Which of the following are measures of an isosceles triangle ?

(i) $\angle G = 60^\circ$, $\angle H = 60^\circ$, $\angle I = 60^\circ$

(ii) $\angle G = 72.44^\circ$, $\angle H = 53.78^\circ$, $\angle I = 53.78^\circ$

(iii) $\angle G = 68.68^\circ$, $\angle H = 59.3^\circ$, $\angle I = 52.02^\circ$

(iv) $\angle G = 38.66^\circ$, $\angle H = 90^\circ$, $\angle I = 51.34^\circ$

(v) $\angle G = 47.16^\circ$, $\angle H = 41.8^\circ$, $\angle I = 91.04^\circ$

29. Which of the following are measures of a scalene triangle ?

(i) $\angle E = 45^\circ$, $\angle F = 90^\circ$, $\angle G = 45^\circ$

(ii) $\angle E = 60^\circ$, $\angle F = 60^\circ$, $\angle G = 60^\circ$

(iii) $\angle E = 81.08^\circ$, $\angle F = 49.46^\circ$, $\angle G = 49.46^\circ$

(iv) $\angle E = 79.04^\circ$, $\angle F = 50.48^\circ$, $\angle G = 50.48^\circ$

(v) $\angle E = 70.81^\circ$, $\angle F = 61.28^\circ$, $\angle G = 47.91^\circ$

30. Which of the following are measures of a right angled triangle ?

(i) $\angle N = 52.26^\circ$, $\angle O = 81.28^\circ$, $\angle P = 46.46^\circ$

(ii) $\angle N = 131.42^\circ$, $\angle O = 27.66^\circ$, $\angle P = 20.92^\circ$

(iii) $\angle N = 42.88^\circ$, $\angle O = 90^\circ$, $\angle P = 47.12^\circ$

(iv) $\angle N = 61.26^\circ$, $\angle O = 71.79^\circ$, $\angle P = 46.95^\circ$

(v) $\angle N = 60^\circ$, $\angle O = 60^\circ$, $\angle P = 60^\circ$

31. Which of the following are measures of an isosceles right angled triangle ?

(i) $\angle D = 45^\circ$, $\angle E = 90^\circ$, $\angle F = 45^\circ$

(ii) $\angle D = 112.75^\circ$, $\angle E = 41.2^\circ$, $\angle F = 26.05^\circ$

(iii) $\angle D = 67.97^\circ$, $\angle E = 52.62^\circ$, $\angle F = 59.41^\circ$

(iv) $\angle D = 74.85^\circ$, $\angle E = 55.83^\circ$, $\angle F = 49.32^\circ$

(v) $\angle D = 60^\circ$, $\angle E = 60^\circ$, $\angle F = 60^\circ$

32. Which of the following are measures of an acute angled triangle ?

(i) $\angle O = 133.81^\circ$, $\angle P = 24.07^\circ$, $\angle Q = 22.12^\circ$

(ii) $\angle O = 45^\circ$, $\angle P = 90^\circ$, $\angle Q = 45^\circ$

(iii) $\angle O = 91.04^\circ$, $\angle P = 47.16^\circ$, $\angle Q = 41.8^\circ$

(iv) $\angle O = 41.65^\circ$, $\angle P = 85.46^\circ$, $\angle Q = 52.89^\circ$

(v) $\angle O = 42.27^\circ$, $\angle P = 90^\circ$, $\angle Q = 47.73^\circ$

33. Which of the following are measures of an obtuse angled triangle ?

(i) $\angle D = 62.52^\circ$, $\angle E = 62.51^\circ$, $\angle F = 54.97^\circ$

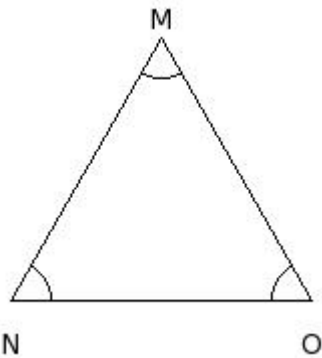
(ii) $\angle D = 81.08^\circ$, $\angle E = 49.46^\circ$, $\angle F = 49.46^\circ$

(iii) $\angle D = 45^\circ$, $\angle E = 90^\circ$, $\angle F = 45^\circ$

(iv) $\angle D = 37.57^\circ$, $\angle E = 90^\circ$, $\angle F = 52.43^\circ$

(v) $\angle D = 129.52^\circ$, $\angle E = 26.53^\circ$, $\angle F = 23.95^\circ$

34. Which of the following are measures of an equilateral triangle ?



(i) $\angle M = 66.12^\circ$, $\angle N = 56.94^\circ$, $\angle O = 56.94^\circ$

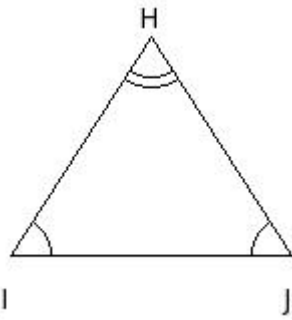
(ii) $\angle M = 45^\circ$, $\angle N = 90^\circ$, $\angle O = 45^\circ$

(iii) $\angle M = 48.37^\circ$, $\angle N = 55.3^\circ$, $\angle O = 76.33^\circ$

(iv) $\angle M = 60^\circ$, $\angle N = 60^\circ$, $\angle O = 60^\circ$

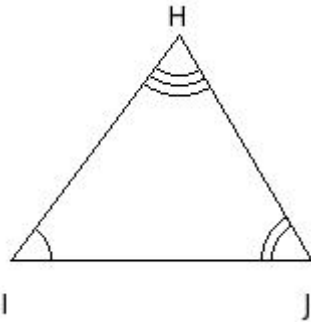
(v) $\angle M = 40.6^\circ$, $\angle N = 90^\circ$, $\angle O = 49.4^\circ$

35. Which of the following are measures of an isosceles triangle ?



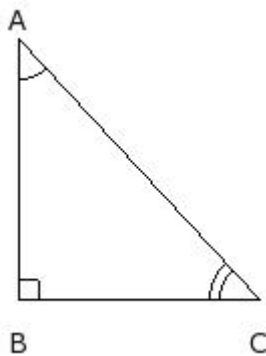
- (i) $\angle H = 60^\circ$, $\angle I = 60^\circ$, $\angle J = 60^\circ$
- (ii) $\angle H = 59.3^\circ$, $\angle I = 68.68^\circ$, $\angle J = 52.02^\circ$
- (iii) $\angle H = 65.16^\circ$, $\angle I = 57.42^\circ$, $\angle J = 57.42^\circ$
- (iv) $\angle H = 47.49^\circ$, $\angle I = 90^\circ$, $\angle J = 42.51^\circ$
- (v) $\angle H = 41.08^\circ$, $\angle I = 80.25^\circ$, $\angle J = 58.67^\circ$

36. Which of the following are measures of a scalene triangle ?



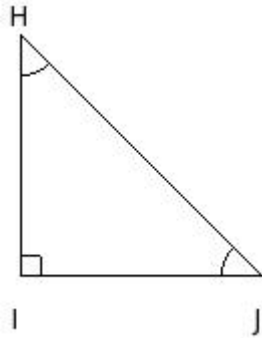
- (i) $\angle H = 67.38^\circ$, $\angle I = 53.13^\circ$, $\angle J = 59.49^\circ$
- (ii) $\angle H = 45^\circ$, $\angle I = 90^\circ$, $\angle J = 45^\circ$
- (iii) $\angle H = 60^\circ$, $\angle I = 60^\circ$, $\angle J = 60^\circ$
- (iv) $\angle H = 45.24^\circ$, $\angle I = 67.38^\circ$, $\angle J = 67.38^\circ$
- (v) $\angle H = 85.98^\circ$, $\angle I = 47.01^\circ$, $\angle J = 47.01^\circ$

37. Which of the following are measures of a right angled triangle ?



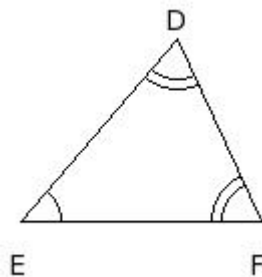
- (i) $\angle A = 60^\circ$, $\angle B = 60^\circ$, $\angle C = 60^\circ$
- (ii) $\angle A = 64.97^\circ$, $\angle B = 50.06^\circ$, $\angle C = 64.97^\circ$
- (iii) $\angle A = 42.71^\circ$, $\angle B = 90^\circ$, $\angle C = 47.29^\circ$
- (iv) $\angle A = 103.34^\circ$, $\angle B = 35.1^\circ$, $\angle C = 41.56^\circ$
- (v) $\angle A = 56.25^\circ$, $\angle B = 50.13^\circ$, $\angle C = 73.62^\circ$

38. Which of the following are measures of an isosceles right angled triangle ?



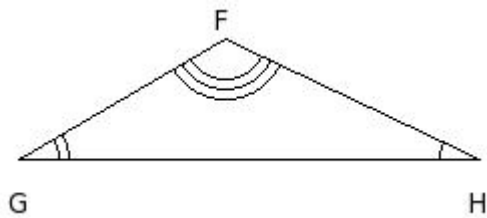
- (i) $\angle H = 122.84^\circ$, $\angle I = 24.84^\circ$, $\angle J = 32.32^\circ$
- (ii) $\angle H = 45^\circ$, $\angle I = 90^\circ$, $\angle J = 45^\circ$
- (iii) $\angle H = 50.13^\circ$, $\angle I = 73.62^\circ$, $\angle J = 56.25^\circ$
- (iv) $\angle H = 60^\circ$, $\angle I = 60^\circ$, $\angle J = 60^\circ$
- (v) $\angle H = 55.64^\circ$, $\angle I = 62.18^\circ$, $\angle J = 62.18^\circ$

39. Which of the following are measures of an acute angled triangle ?



- (i) $\angle D = 133.5^\circ$, $\angle E = 20.3^\circ$, $\angle F = 26.2^\circ$
- (ii) $\angle D = 65.37^\circ$, $\angle E = 49.25^\circ$, $\angle F = 65.38^\circ$
- (iii) $\angle D = 45^\circ$, $\angle E = 90^\circ$, $\angle F = 45^\circ$
- (iv) $\angle D = 54.46^\circ$, $\angle E = 90^\circ$, $\angle F = 35.54^\circ$
- (v) $\angle D = 137.17^\circ$, $\angle E = 20.64^\circ$, $\angle F = 22.19^\circ$

40. Which of the following are measures of an obtuse angled triangle ?



- (i) $\angle F = 67.38^\circ$, $\angle G = 67.38^\circ$, $\angle H = 45.24^\circ$
- (ii) $\angle F = 45^\circ$, $\angle G = 90^\circ$, $\angle H = 45^\circ$
- (iii) $\angle F = 42.88^\circ$, $\angle G = 90^\circ$, $\angle H = 47.12^\circ$
- (iv) $\angle F = 124.23^\circ$, $\angle G = 30.22^\circ$, $\angle H = 25.55^\circ$
- (v) $\angle F = 41.08^\circ$, $\angle G = 58.67^\circ$, $\angle H = 80.25^\circ$

41. Find the measures of the three sides suitable to form a triangle?

- (i) $GH = 20 \text{ cm}$, $HI = 5 \text{ cm}$, $IG = 14 \text{ cm}$
- (ii) $GH = 9 \text{ cm}$, $HI = 5 \text{ cm}$, $IG = 19 \text{ cm}$
- (iii) $GH = 14 \text{ cm}$, $HI = 11 \text{ cm}$, $IG = 10 \text{ cm}$
- (iv) $GH = 16 \text{ cm}$, $HI = 7 \text{ cm}$, $IG = 6 \text{ cm}$
- (v) $GH = 5 \text{ cm}$, $HI = 10 \text{ cm}$, $IG = 18 \text{ cm}$

42. Find the measures of the three angles suitable to form a triangle?

- (i) $\angle C = 101.20^\circ$, $\angle D = 76.40^\circ$, $\angle E = 109.30^\circ$
- (ii) $\angle C = 88.10^\circ$, $\angle D = 112.90^\circ$, $\angle E = 112.30^\circ$
- (iii) $\angle C = 76.40^\circ$, $\angle D = 71.10^\circ$, $\angle E = 49.50^\circ$
- (iv) $\angle C = 61.28^\circ$, $\angle D = 47.91^\circ$, $\angle E = 70.81^\circ$
- (v) $\angle C = 81.70^\circ$, $\angle D = 120.70^\circ$, $\angle E = 91.50^\circ$

43. The point of intersection of the altitudes of a triangle is called

- (i) altitude (ii) incentre (iii) centroid (iv) median (v) orthocentre

44. The point of intersection of the perpendicular bisectors of the sides of a triangle is called

- (i) excentre (ii) incentre (iii) centroid (iv) circumcentre (v) altitude

45. The point of intersection of the bisectors of the interior angles of a triangle is called

- (i) excentre (ii) altitude (iii) circumcentre (iv) incentre (v) median

46. The point of intersection of the bisectors of the interior angle and the two exterior opposite

angles of a triangle is called

(i) circumcentre (ii) excentre (iii) centroid (iv) orthocentre (v) altitude

47. The point of intersection of the medians of a triangle is called

(i) median (ii) excentre (iii) centroid (iv) orthocentre (v) altitude

48. The line joining each vertex to the mid-point of the opposite side of a triangle is called

(i) altitude (ii) excentre (iii) median (iv) centroid (v) orthocentre

49. The perpendicular drawn from each vertex to the opposite side of a triangle is called

(i) centroid (ii) altitude (iii) circumcentre (iv) incentre (v) excentre

50. Which of the following may lie outside or on the triangle?

- a) centroid
- b) incentre
- c) circumcentre
- d) orthocentre
- e) excentre

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

51. Sum of the interior angles in a triangle is

(i) 195° (ii) 185° (iii) 180° (iv) 190° (v) 210°

52. How many diagonals does a triangle have?

(i) 1 (ii) 3 (iii) (-3) (iv) 0 (v) (-1)

53. Two angles of a triangle measure 68° and 58° respectively. Find the measure of the third angle of the triangle

(i) 55° (ii) 54° (iii) 56° (iv) 52° (v) 53°

Assignment Key

- 1) (v)
- 2) (iii)
- 3) (iii)
- 4) (v)
- 5) (ii)
- 6) (iii)
- 7) (iv)
- 8) (iv)
- 9) (v)
- 10) (iii)
- 11) (i)
- 12) (iii)
- 13) (ii)
- 14) (iii)
- 15) (i)
- 16) (v)
- 17) (v)
- 18) (i)
- 19) (v)
- 20) (iii)
- 21) (iii)
- 22) (iii)
- 23) (iii)
- 24) (iii)
- 25) (v)
- 26) (ii)
- 27) (v)
- 28) (ii)
- 29) (v)
- 30) (iii)
- 31) (i)
- 32) (iv)
- 33) (v)
- 34) (iv)
- 35) (iii)
- 36) (i)
- 37) (iii)
- 38) (ii)
- 39) (ii)

- 40) (iv)
- 41) (iii)
- 42) (iv)
- 43) (v)
- 44) (iv)
- 45) (iv)
- 46) (ii)
- 47) (iii)
- 48) (iii)
- 49) (ii)
- 50) (iv)
- 51) (iii)
- 52) (iv)
- 53) (ii)