

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

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

- (i) $GH = 12 \text{ cm}$, $HI = 12 \text{ cm}$, $IG = 16.97 \text{ cm}$
 - (ii) $GH = 12 \text{ cm}$, $HI = 11 \text{ cm}$, $IG = 12 \text{ cm}$
 - (iii) $GH = 14 \text{ cm}$, $HI = 15 \text{ cm}$, $IG = 20.52 \text{ cm}$
 - (iv) $GH = 10 \text{ cm}$, $HI = 15 \text{ cm}$, $IG = 11 \text{ cm}$
 - (v) $GH = 12 \text{ cm}$, $HI = 12 \text{ cm}$, $IG = 12 \text{ cm}$
-

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

- (i) $IJ = 15 \text{ cm}$, $JK = 14 \text{ cm}$, $KI = 10 \text{ cm}$
 - (ii) $IJ = 13 \text{ cm}$, $JK = 10 \text{ cm}$, $KI = 16.4 \text{ cm}$
 - (iii) $IJ = 10 \text{ cm}$, $JK = 10 \text{ cm}$, $KI = 10 \text{ cm}$
 - (iv) $IJ = 11 \text{ cm}$, $JK = 13 \text{ cm}$, $KI = 11 \text{ cm}$
 - (v) $IJ = 10 \text{ cm}$, $JK = 14 \text{ cm}$, $KI = 11 \text{ cm}$
-

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

- (i) $GH = 13 \text{ cm}$, $HI = 15 \text{ cm}$, $IG = 13 \text{ cm}$
 - (ii) $GH = 10 \text{ cm}$, $HI = 13 \text{ cm}$, $IG = 10 \text{ cm}$
 - (iii) $GH = 13 \text{ cm}$, $HI = 13 \text{ cm}$, $IG = 18.38 \text{ cm}$
 - (iv) $GH = 10 \text{ cm}$, $HI = 10 \text{ cm}$, $IG = 10 \text{ cm}$
 - (v) $GH = 15 \text{ cm}$, $HI = 11 \text{ cm}$, $IG = 10 \text{ cm}$
-

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

- (i) $OP = 13 \text{ cm}$, $PQ = 10 \text{ cm}$, $QO = 11 \text{ cm}$
 - (ii) $OP = 12 \text{ cm}$, $PQ = 21 \text{ cm}$, $QO = 14 \text{ cm}$
 - (iii) $OP = 15 \text{ cm}$, $PQ = 11 \text{ cm}$, $QO = 12 \text{ cm}$
 - (iv) $OP = 15 \text{ cm}$, $PQ = 13 \text{ cm}$, $QO = 19.85 \text{ cm}$
 - (v) $OP = 15 \text{ cm}$, $PQ = 15 \text{ cm}$, $QO = 15 \text{ cm}$
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5. Which of the following are measures of an isosceles right angled triangle ?

- (i) $MN = 11 \text{ cm}$, $NO = 20 \text{ cm}$, $OM = 12 \text{ cm}$
 - (ii) $MN = 13 \text{ cm}$, $NO = 14 \text{ cm}$, $OM = 15 \text{ cm}$
 - (iii) $MN = 14 \text{ cm}$, $NO = 14 \text{ cm}$, $OM = 19.8 \text{ cm}$
 - (iv) $MN = 14 \text{ cm}$, $NO = 15 \text{ cm}$, $OM = 11 \text{ cm}$
 - (v) $MN = 12 \text{ cm}$, $NO = 12 \text{ cm}$, $OM = 12 \text{ cm}$
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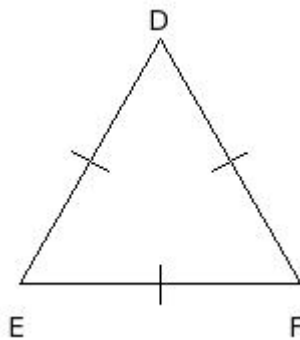
6. Which of the following are measures of an acute angled triangle ?

- (i) $MN = 15 \text{ cm}$, $NO = 21 \text{ cm}$, $OM = 12 \text{ cm}$
 - (ii) $MN = 11 \text{ cm}$, $NO = 11 \text{ cm}$, $OM = 12 \text{ cm}$
 - (iii) $MN = 14 \text{ cm}$, $NO = 14 \text{ cm}$, $OM = 19.8 \text{ cm}$
 - (iv) $MN = 11 \text{ cm}$, $NO = 18 \text{ cm}$, $OM = 11 \text{ cm}$
 - (v) $MN = 13 \text{ cm}$, $NO = 14 \text{ cm}$, $OM = 19.1 \text{ cm}$
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7. Which of the following are measures of an obtuse angled triangle ?

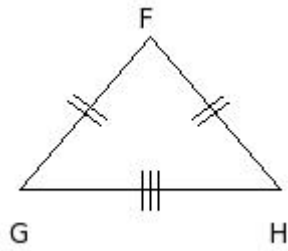
- (i) $CD = 13 \text{ cm}$, $DE = 11 \text{ cm}$, $EC = 11 \text{ cm}$
 - (ii) $CD = 10 \text{ cm}$, $DE = 10 \text{ cm}$, $EC = 14.14 \text{ cm}$
 - (iii) $CD = 14 \text{ cm}$, $DE = 10 \text{ cm}$, $EC = 12 \text{ cm}$
 - (iv) $CD = 11 \text{ cm}$, $DE = 20 \text{ cm}$, $EC = 11 \text{ cm}$
 - (v) $CD = 13 \text{ cm}$, $DE = 14 \text{ cm}$, $EC = 19.1 \text{ cm}$
-

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



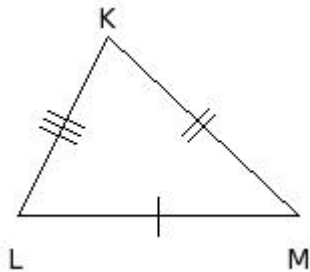
- (i) $DE = 13 \text{ cm}$, $EF = 13 \text{ cm}$, $FD = 18.38 \text{ cm}$
 - (ii) $DE = 11 \text{ cm}$, $EF = 14 \text{ cm}$, $FD = 11 \text{ cm}$
 - (iii) $DE = 14 \text{ cm}$, $EF = 10 \text{ cm}$, $FD = 13 \text{ cm}$
 - (iv) $DE = 11 \text{ cm}$, $EF = 13 \text{ cm}$, $FD = 17.03 \text{ cm}$
 - (v) $DE = 14 \text{ cm}$, $EF = 14 \text{ cm}$, $FD = 14 \text{ cm}$
-

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



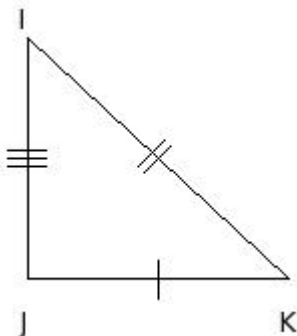
- (i) $FG = 11 \text{ cm}$, $GH = 11 \text{ cm}$, $HF = 11 \text{ cm}$
- (ii) $FG = 10 \text{ cm}$, $GH = 15 \text{ cm}$, $HF = 11 \text{ cm}$
- (iii) $FG = 10 \text{ cm}$, $GH = 13 \text{ cm}$, $HF = 10 \text{ cm}$
- (iv) $FG = 14 \text{ cm}$, $GH = 13 \text{ cm}$, $HF = 12 \text{ cm}$
- (v) $FG = 15 \text{ cm}$, $GH = 11 \text{ cm}$, $HF = 18.6 \text{ cm}$

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



- (i) $KL = 14 \text{ cm}$, $LM = 15 \text{ cm}$, $MK = 14 \text{ cm}$
- (ii) $KL = 14 \text{ cm}$, $LM = 14 \text{ cm}$, $MK = 14 \text{ cm}$
- (iii) $KL = 13 \text{ cm}$, $LM = 13 \text{ cm}$, $MK = 18.38 \text{ cm}$
- (iv) $KL = 13 \text{ cm}$, $LM = 11 \text{ cm}$, $MK = 13 \text{ cm}$
- (v) $KL = 10 \text{ cm}$, $LM = 14 \text{ cm}$, $MK = 13 \text{ cm}$

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

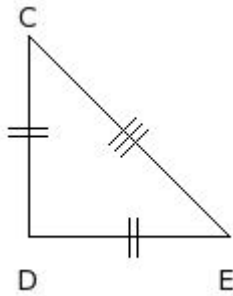


- (i) $IJ = 13 \text{ cm}$, $JK = 15 \text{ cm}$, $KI = 10 \text{ cm}$
- (ii) $IJ = 14 \text{ cm}$, $JK = 11 \text{ cm}$, $KI = 13 \text{ cm}$
- (iii) $IJ = 10 \text{ cm}$, $JK = 10 \text{ cm}$, $KI = 10 \text{ cm}$

(iv) $IJ = 12 \text{ cm}$, $JK = 13 \text{ cm}$, $KI = 17.69 \text{ cm}$

(v) $IJ = 10 \text{ cm}$, $JK = 16 \text{ cm}$, $KI = 12 \text{ cm}$

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



(i) $CD = 12 \text{ cm}$, $DE = 10 \text{ cm}$, $EC = 13 \text{ cm}$

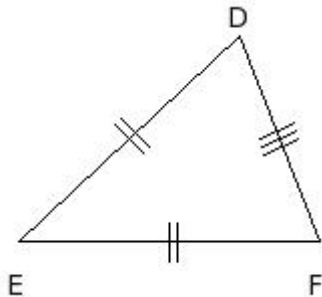
(ii) $CD = 11 \text{ cm}$, $DE = 11 \text{ cm}$, $EC = 11 \text{ cm}$

(iii) $CD = 10 \text{ cm}$, $DE = 10 \text{ cm}$, $EC = 14.14 \text{ cm}$

(iv) $CD = 14 \text{ cm}$, $DE = 13 \text{ cm}$, $EC = 11 \text{ cm}$

(v) $CD = 13 \text{ cm}$, $DE = 20 \text{ cm}$, $EC = 10 \text{ cm}$

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



(i) $DE = 13 \text{ cm}$, $EF = 21 \text{ cm}$, $FD = 11 \text{ cm}$

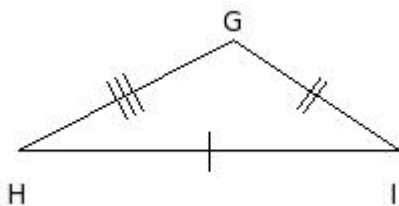
(ii) $DE = 12 \text{ cm}$, $EF = 20 \text{ cm}$, $FD = 14 \text{ cm}$

(iii) $DE = 15 \text{ cm}$, $EF = 15 \text{ cm}$, $FD = 11 \text{ cm}$

(iv) $DE = 12 \text{ cm}$, $EF = 11 \text{ cm}$, $FD = 16.28 \text{ cm}$

(v) $DE = 10 \text{ cm}$, $EF = 10 \text{ cm}$, $FD = 14.14 \text{ cm}$

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



- (i) $GH = 11 \text{ cm}$, $HI = 11 \text{ cm}$, $IG = 15.56 \text{ cm}$
 - (ii) $GH = 12 \text{ cm}$, $HI = 19 \text{ cm}$, $IG = 10 \text{ cm}$
 - (iii) $GH = 14 \text{ cm}$, $HI = 15 \text{ cm}$, $IG = 11 \text{ cm}$
 - (iv) $GH = 14 \text{ cm}$, $HI = 15 \text{ cm}$, $IG = 20.52 \text{ cm}$
 - (v) $GH = 13 \text{ cm}$, $HI = 10 \text{ cm}$, $IG = 14 \text{ cm}$
-

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

- (i) $\angle G = 45^\circ$, $\angle H = 90^\circ$, $\angle I = 45^\circ$
 - (ii) $\angle G = 63.03^\circ$, $\angle H = 73.69^\circ$, $\angle I = 43.28^\circ$
 - (iii) $\angle G = 38.66^\circ$, $\angle H = 90^\circ$, $\angle I = 51.34^\circ$
 - (iv) $\angle G = 60^\circ$, $\angle H = 60^\circ$, $\angle I = 60^\circ$
 - (v) $\angle G = 81.08^\circ$, $\angle H = 49.46^\circ$, $\angle I = 49.46^\circ$
-

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

- (i) $\angle N = 64.78^\circ$, $\angle O = 57.61^\circ$, $\angle P = 57.61^\circ$
 - (ii) $\angle N = 40.16^\circ$, $\angle O = 75.31^\circ$, $\angle P = 64.53^\circ$
 - (iii) $\angle N = 56.31^\circ$, $\angle O = 90^\circ$, $\angle P = 33.69^\circ$
 - (iv) $\angle N = 60^\circ$, $\angle O = 60^\circ$, $\angle P = 60^\circ$
 - (v) $\angle N = 63.03^\circ$, $\angle O = 43.28^\circ$, $\angle P = 73.69^\circ$
-

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

- (i) $\angle B = 45^\circ$, $\angle C = 90^\circ$, $\angle D = 45^\circ$
 - (ii) $\angle B = 60^\circ$, $\angle C = 60^\circ$, $\angle D = 60^\circ$
 - (iii) $\angle B = 74.85^\circ$, $\angle C = 55.83^\circ$, $\angle D = 49.32^\circ$
 - (iv) $\angle B = 81.08^\circ$, $\angle C = 49.46^\circ$, $\angle D = 49.46^\circ$
 - (v) $\angle B = 38.94^\circ$, $\angle C = 70.53^\circ$, $\angle D = 70.53^\circ$
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18. Which of the following are measures of a right angled triangle ?

- (i) $\angle D = 46.95^\circ$, $\angle E = 61.26^\circ$, $\angle F = 71.79^\circ$
 - (ii) $\angle D = 46.97^\circ$, $\angle E = 90^\circ$, $\angle F = 43.03^\circ$
 - (iii) $\angle D = 81.28^\circ$, $\angle E = 52.26^\circ$, $\angle F = 46.46^\circ$
 - (iv) $\angle D = 60^\circ$, $\angle E = 60^\circ$, $\angle F = 60^\circ$
 - (v) $\angle D = 132.88^\circ$, $\angle E = 23.56^\circ$, $\angle F = 23.56^\circ$
-

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

- (i) $\angle E = 45^\circ$, $\angle F = 90^\circ$, $\angle G = 45^\circ$
 - (ii) $\angle E = 62.33^\circ$, $\angle F = 62.34^\circ$, $\angle G = 55.33^\circ$
 - (iii) $\angle E = 60^\circ$, $\angle F = 60^\circ$, $\angle G = 60^\circ$
 - (iv) $\angle E = 81.28^\circ$, $\angle F = 46.46^\circ$, $\angle G = 52.26^\circ$
 - (v) $\angle E = 115.37^\circ$, $\angle F = 29.53^\circ$, $\angle G = 35.1^\circ$
-

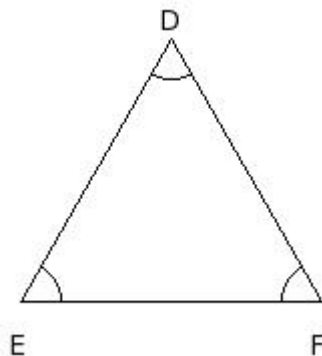
20. Which of the following are measures of an acute angled triangle ?

- (i) $\angle F = 94.41^\circ$, $\angle G = 35.91^\circ$, $\angle H = 49.68^\circ$
 - (ii) $\angle F = 45^\circ$, $\angle G = 90^\circ$, $\angle H = 45^\circ$
 - (iii) $\angle F = 50.19^\circ$, $\angle G = 90^\circ$, $\angle H = 39.81^\circ$
 - (iv) $\angle F = 117.92^\circ$, $\angle G = 32.68^\circ$, $\angle H = 29.4^\circ$
 - (v) $\angle F = 45.21^\circ$, $\angle G = 51.32^\circ$, $\angle H = 83.47^\circ$
-

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

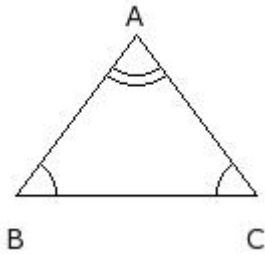
- (i) $\angle B = 47.29^\circ$, $\angle C = 90^\circ$, $\angle D = 42.71^\circ$
 - (ii) $\angle B = 128.32^\circ$, $\angle C = 25.84^\circ$, $\angle D = 25.84^\circ$
 - (iii) $\angle B = 46.46^\circ$, $\angle C = 52.26^\circ$, $\angle D = 81.28^\circ$
 - (iv) $\angle B = 62.97^\circ$, $\angle C = 54.07^\circ$, $\angle D = 62.96^\circ$
 - (v) $\angle B = 45^\circ$, $\angle C = 90^\circ$, $\angle D = 45^\circ$
-

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



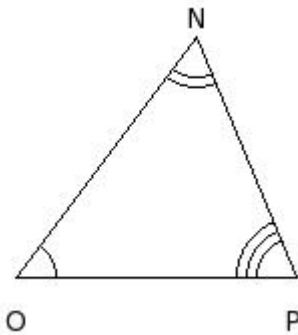
- (i) $\angle D = 60^\circ$, $\angle E = 60^\circ$, $\angle F = 60^\circ$
 - (ii) $\angle D = 74.85^\circ$, $\angle E = 55.83^\circ$, $\angle F = 49.32^\circ$
 - (iii) $\angle D = 56.31^\circ$, $\angle E = 90^\circ$, $\angle F = 33.69^\circ$
 - (iv) $\angle D = 45^\circ$, $\angle E = 90^\circ$, $\angle F = 45^\circ$
 - (v) $\angle D = 70.46^\circ$, $\angle E = 54.77^\circ$, $\angle F = 54.77^\circ$
-

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



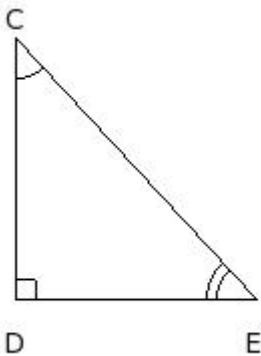
- (i) $\angle A = 49.76^\circ$, $\angle B = 90^\circ$, $\angle C = 40.24^\circ$
 - (ii) $\angle A = 60^\circ$, $\angle B = 60^\circ$, $\angle C = 60^\circ$
 - (iii) $\angle A = 52.02^\circ$, $\angle B = 59.3^\circ$, $\angle C = 68.68^\circ$
 - (iv) $\angle A = 75.31^\circ$, $\angle B = 40.16^\circ$, $\angle C = 64.53^\circ$
 - (v) $\angle A = 73.74^\circ$, $\angle B = 53.13^\circ$, $\angle C = 53.13^\circ$
-

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



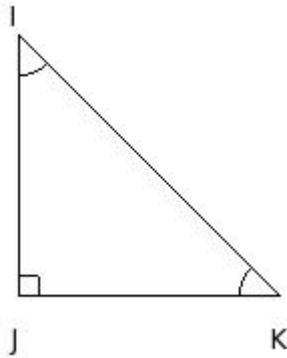
- (i) $\angle N = 65.6^\circ$, $\angle O = 57.2^\circ$, $\angle P = 57.2^\circ$
 - (ii) $\angle N = 60^\circ$, $\angle O = 60^\circ$, $\angle P = 60^\circ$
 - (iii) $\angle N = 59.49^\circ$, $\angle O = 53.13^\circ$, $\angle P = 67.38^\circ$
 - (iv) $\angle N = 81.08^\circ$, $\angle O = 49.46^\circ$, $\angle P = 49.46^\circ$
 - (v) $\angle N = 45^\circ$, $\angle O = 90^\circ$, $\angle P = 45^\circ$
-

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



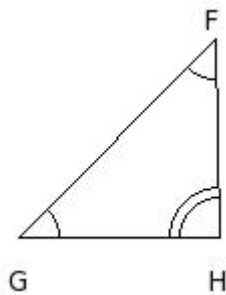
- (i) $\angle C = 134.18^\circ$, $\angle D = 26.63^\circ$, $\angle E = 19.19^\circ$
- (ii) $\angle C = 85.98^\circ$, $\angle D = 47.01^\circ$, $\angle E = 47.01^\circ$
- (iii) $\angle C = 60^\circ$, $\angle D = 60^\circ$, $\angle E = 60^\circ$
- (iv) $\angle C = 42.71^\circ$, $\angle D = 90^\circ$, $\angle E = 47.29^\circ$
- (v) $\angle C = 64.53^\circ$, $\angle D = 75.31^\circ$, $\angle E = 40.16^\circ$

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



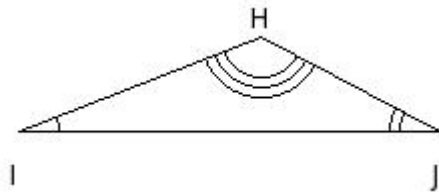
- (i) $\angle I = 60^\circ$, $\angle J = 60^\circ$, $\angle K = 60^\circ$
- (ii) $\angle I = 115.37^\circ$, $\angle J = 35.1^\circ$, $\angle K = 29.53^\circ$
- (iii) $\angle I = 45^\circ$, $\angle J = 90^\circ$, $\angle K = 45^\circ$
- (iv) $\angle I = 48.37^\circ$, $\angle J = 55.3^\circ$, $\angle K = 76.33^\circ$
- (v) $\angle I = 67.97^\circ$, $\angle J = 52.62^\circ$, $\angle K = 59.41^\circ$

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



- (i) $\angle F = 45.57^\circ$, $\angle G = 45.57^\circ$, $\angle H = 88.86^\circ$
- (ii) $\angle F = 99.15^\circ$, $\angle G = 42.75^\circ$, $\angle H = 38.1^\circ$
- (iii) $\angle F = 42.71^\circ$, $\angle G = 90^\circ$, $\angle H = 47.29^\circ$
- (iv) $\angle F = 45^\circ$, $\angle G = 90^\circ$, $\angle H = 45^\circ$
- (v) $\angle F = 120.75^\circ$, $\angle G = 31.04^\circ$, $\angle H = 28.21^\circ$

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



- (i) $\angle H = 131.42^\circ$, $\angle I = 20.92^\circ$, $\angle J = 27.66^\circ$
- (ii) $\angle H = 45^\circ$, $\angle I = 90^\circ$, $\angle J = 45^\circ$
- (iii) $\angle H = 36.25^\circ$, $\angle I = 90^\circ$, $\angle J = 53.75^\circ$
- (iv) $\angle H = 53.13^\circ$, $\angle I = 53.13^\circ$, $\angle J = 73.74^\circ$
- (v) $\angle H = 64.32^\circ$, $\angle I = 51.36^\circ$, $\angle J = 64.32^\circ$

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

- (i) $CD = 5 \text{ cm}$, $DE = 5 \text{ cm}$, $EC = 14 \text{ cm}$
- (ii) $CD = 5 \text{ cm}$, $DE = 6 \text{ cm}$, $EC = 15 \text{ cm}$
- (iii) $CD = 11 \text{ cm}$, $DE = 14 \text{ cm}$, $EC = 14 \text{ cm}$
- (iv) $CD = 20 \text{ cm}$, $DE = 8 \text{ cm}$, $EC = 9 \text{ cm}$
- (v) $CD = 17 \text{ cm}$, $DE = 7 \text{ cm}$, $EC = 9 \text{ cm}$

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

- (i) $\angle L = 46.40^\circ$, $\angle M = 39.90^\circ$, $\angle N = 50.30^\circ$
- (ii) $\angle L = 66.74^\circ$, $\angle M = 56.63^\circ$, $\angle N = 56.63^\circ$
- (iii) $\angle L = 76.90^\circ$, $\angle M = 65.60^\circ$, $\angle N = 50.10^\circ$
- (iv) $\angle L = 108.80^\circ$, $\angle M = 40.20^\circ$, $\angle N = 34.30^\circ$
- (v) $\angle L = 91.90^\circ$, $\angle M = 57.80^\circ$, $\angle N = 46.30^\circ$

31. In a right angled triangle, if one of the angles is 49.09° , find the third angle

- (i) 55.91° (ii) 45.91° (iii) 70.91° (iv) 40.91° (v) 50.91°

32. In a right angled triangle, if one of the angles is 36.25° , find the third angle

- (i) 83.75° (ii) 63.75° (iii) 53.75° (iv) 58.75° (v) 68.75°

Assignment Key

- 1) (v)
- 2) (iv)
- 3) (v)
- 4) (iv)
- 5) (iii)
- 6) (ii)
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- 29) (iii)
- 30) (ii)
- 31) (iv)
- 32) (iii)