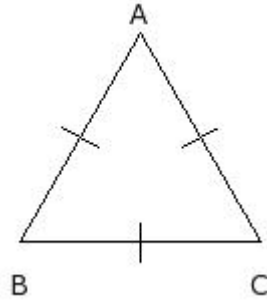


**EduSahara™ Learning Center Assignment**

Grade : Class VII, CBSE  
Chapter : The Triangle and its Properties  
Name : Types of Triangles  
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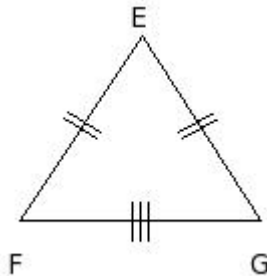
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1. Which of the following are measures of an equilateral triangle ?



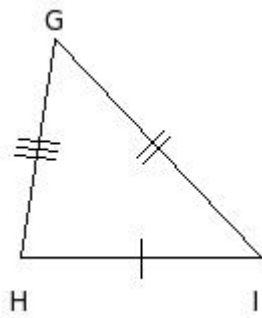
- (i)  $AB = 12 \text{ cm}$  ,  $BC = 12 \text{ cm}$  ,  $CA = 12 \text{ cm}$
  - (ii)  $AB = 14 \text{ cm}$  ,  $BC = 12 \text{ cm}$  ,  $CA = 10 \text{ cm}$
  - (iii)  $AB = 11 \text{ cm}$  ,  $BC = 12 \text{ cm}$  ,  $CA = 16.28 \text{ cm}$
  - (iv)  $AB = 12 \text{ cm}$  ,  $BC = 11 \text{ cm}$  ,  $CA = 12 \text{ cm}$
  - (v)  $AB = 11 \text{ cm}$  ,  $BC = 11 \text{ cm}$  ,  $CA = 15.56 \text{ cm}$
- 

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



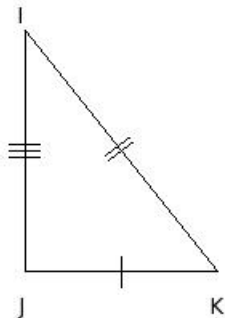
- (i)  $EF = 13 \text{ cm}$  ,  $FG = 15 \text{ cm}$  ,  $GE = 19.85 \text{ cm}$
  - (ii)  $EF = 12 \text{ cm}$  ,  $FG = 14 \text{ cm}$  ,  $GE = 11 \text{ cm}$
  - (iii)  $EF = 11 \text{ cm}$  ,  $FG = 12 \text{ cm}$  ,  $GE = 11 \text{ cm}$
  - (iv)  $EF = 15 \text{ cm}$  ,  $FG = 15 \text{ cm}$  ,  $GE = 15 \text{ cm}$
  - (v)  $EF = 15 \text{ cm}$  ,  $FG = 14 \text{ cm}$  ,  $GE = 12 \text{ cm}$
- 

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



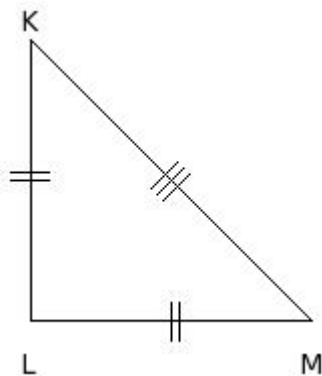
- (i)  $GH = 12 \text{ cm}$  ,  $HI = 13 \text{ cm}$  ,  $IG = 12 \text{ cm}$
- (ii)  $GH = 14 \text{ cm}$  ,  $HI = 14 \text{ cm}$  ,  $IG = 14 \text{ cm}$
- (iii)  $GH = 14 \text{ cm}$  ,  $HI = 14 \text{ cm}$  ,  $IG = 19.8 \text{ cm}$
- (iv)  $GH = 11 \text{ cm}$  ,  $HI = 12 \text{ cm}$  ,  $IG = 15 \text{ cm}$
- (v)  $GH = 15 \text{ cm}$  ,  $HI = 12 \text{ cm}$  ,  $IG = 15 \text{ cm}$

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



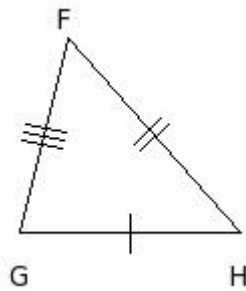
- (i)  $IJ = 11 \text{ cm}$  ,  $JK = 11 \text{ cm}$  ,  $KI = 11 \text{ cm}$
- (ii)  $IJ = 15 \text{ cm}$  ,  $JK = 12 \text{ cm}$  ,  $KI = 19.21 \text{ cm}$
- (iii)  $IJ = 10 \text{ cm}$  ,  $JK = 14 \text{ cm}$  ,  $KI = 12 \text{ cm}$
- (iv)  $IJ = 10 \text{ cm}$  ,  $JK = 14 \text{ cm}$  ,  $KI = 13 \text{ cm}$
- (v)  $IJ = 14 \text{ cm}$  ,  $JK = 22 \text{ cm}$  ,  $KI = 12 \text{ cm}$

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



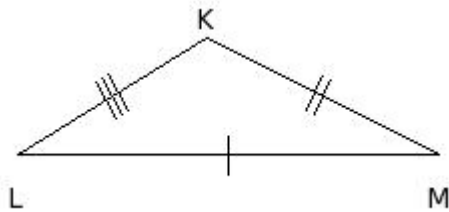
- (i)  $KL = 13 \text{ cm}$  ,  $LM = 21 \text{ cm}$  ,  $MK = 15 \text{ cm}$
  - (ii)  $KL = 14 \text{ cm}$  ,  $LM = 14 \text{ cm}$  ,  $MK = 11 \text{ cm}$
  - (iii)  $KL = 15 \text{ cm}$  ,  $LM = 15 \text{ cm}$  ,  $MK = 15 \text{ cm}$
  - (iv)  $KL = 14 \text{ cm}$  ,  $LM = 14 \text{ cm}$  ,  $MK = 19.8 \text{ cm}$
  - (v)  $KL = 11 \text{ cm}$  ,  $LM = 15 \text{ cm}$  ,  $MK = 12 \text{ cm}$
- 

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



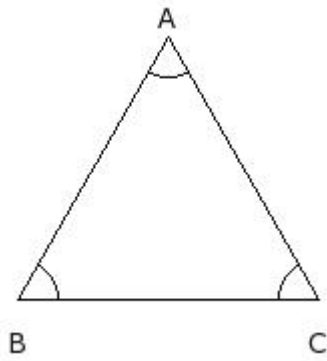
- (i)  $FG = 11 \text{ cm}$  ,  $GH = 16 \text{ cm}$  ,  $HF = 11 \text{ cm}$
  - (ii)  $FG = 10 \text{ cm}$  ,  $GH = 11 \text{ cm}$  ,  $HF = 13 \text{ cm}$
  - (iii)  $FG = 15 \text{ cm}$  ,  $GH = 20 \text{ cm}$  ,  $HF = 11 \text{ cm}$
  - (iv)  $FG = 15 \text{ cm}$  ,  $GH = 13 \text{ cm}$  ,  $HF = 19.85 \text{ cm}$
  - (v)  $FG = 14 \text{ cm}$  ,  $GH = 14 \text{ cm}$  ,  $HF = 19.8 \text{ cm}$
- 

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



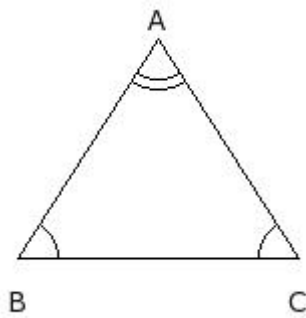
- (i)  $KL = 11 \text{ cm}$  ,  $LM = 21 \text{ cm}$  ,  $MK = 13 \text{ cm}$
  - (ii)  $KL = 12 \text{ cm}$  ,  $LM = 12 \text{ cm}$  ,  $MK = 16.97 \text{ cm}$
  - (iii)  $KL = 12 \text{ cm}$  ,  $LM = 13 \text{ cm}$  ,  $MK = 13 \text{ cm}$
  - (iv)  $KL = 10 \text{ cm}$  ,  $LM = 11 \text{ cm}$  ,  $MK = 14.87 \text{ cm}$
  - (v)  $KL = 15 \text{ cm}$  ,  $LM = 13 \text{ cm}$  ,  $MK = 12 \text{ cm}$
- 

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



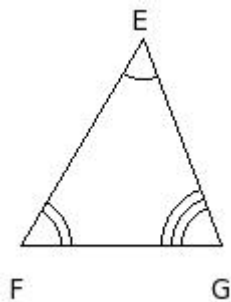
- (i)  $\angle A = 43.03^\circ$ ,  $\angle B = 90^\circ$ ,  $\angle C = 46.97^\circ$
- (ii)  $\angle A = 45^\circ$ ,  $\angle B = 90^\circ$ ,  $\angle C = 45^\circ$
- (iii)  $\angle A = 73.74^\circ$ ,  $\angle B = 53.13^\circ$ ,  $\angle C = 53.13^\circ$
- (iv)  $\angle A = 60^\circ$ ,  $\angle B = 60^\circ$ ,  $\angle C = 60^\circ$
- (v)  $\angle A = 47.16^\circ$ ,  $\angle B = 91.04^\circ$ ,  $\angle C = 41.8^\circ$

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



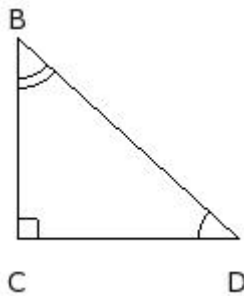
- (i)  $\angle A = 46.46^\circ$ ,  $\angle B = 52.26^\circ$ ,  $\angle C = 81.28^\circ$
- (ii)  $\angle A = 60^\circ$ ,  $\angle B = 60^\circ$ ,  $\angle C = 60^\circ$
- (iii)  $\angle A = 52.62^\circ$ ,  $\angle B = 67.97^\circ$ ,  $\angle C = 59.41^\circ$
- (iv)  $\angle A = 43.03^\circ$ ,  $\angle B = 90^\circ$ ,  $\angle C = 46.97^\circ$
- (v)  $\angle A = 65.16^\circ$ ,  $\angle B = 57.42^\circ$ ,  $\angle C = 57.42^\circ$

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



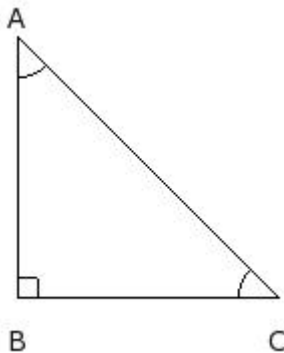
- (i)  $\angle E = 71.38^\circ$ ,  $\angle F = 54.31^\circ$ ,  $\angle G = 54.31^\circ$
  - (ii)  $\angle E = 51.32^\circ$ ,  $\angle F = 59.17^\circ$ ,  $\angle G = 69.51^\circ$
  - (iii)  $\angle E = 45^\circ$ ,  $\angle F = 90^\circ$ ,  $\angle G = 45^\circ$
  - (iv)  $\angle E = 54.56^\circ$ ,  $\angle F = 62.72^\circ$ ,  $\angle G = 62.72^\circ$
  - (v)  $\angle E = 60^\circ$ ,  $\angle F = 60^\circ$ ,  $\angle G = 60^\circ$
- 

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



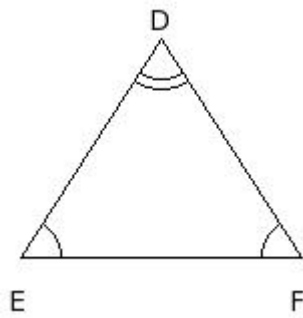
- (i)  $\angle B = 46.95^\circ$ ,  $\angle C = 71.79^\circ$ ,  $\angle D = 61.26^\circ$
  - (ii)  $\angle B = 120.75^\circ$ ,  $\angle C = 31.04^\circ$ ,  $\angle D = 28.21^\circ$
  - (iii)  $\angle B = 59.41^\circ$ ,  $\angle C = 67.97^\circ$ ,  $\angle D = 52.62^\circ$
  - (iv)  $\angle B = 47.73^\circ$ ,  $\angle C = 90^\circ$ ,  $\angle D = 42.27^\circ$
  - (v)  $\angle B = 60^\circ$ ,  $\angle C = 60^\circ$ ,  $\angle D = 60^\circ$
- 

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



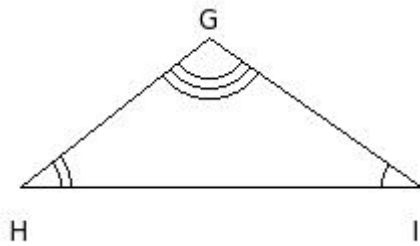
- (i)  $\angle A = 60^\circ$ ,  $\angle B = 60^\circ$ ,  $\angle C = 60^\circ$
  - (ii)  $\angle A = 71.79^\circ$ ,  $\angle B = 61.26^\circ$ ,  $\angle C = 46.95^\circ$
  - (iii)  $\angle A = 100.29^\circ$ ,  $\angle B = 36.18^\circ$ ,  $\angle C = 43.53^\circ$
  - (iv)  $\angle A = 61.28^\circ$ ,  $\angle B = 70.81^\circ$ ,  $\angle C = 47.91^\circ$
  - (v)  $\angle A = 45^\circ$ ,  $\angle B = 90^\circ$ ,  $\angle C = 45^\circ$
- 

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



- (i)  $\angle D = 51.84^\circ$ ,  $\angle E = 90^\circ$ ,  $\angle F = 38.16^\circ$
- (ii)  $\angle D = 65.16^\circ$ ,  $\angle E = 57.42^\circ$ ,  $\angle F = 57.42^\circ$
- (iii)  $\angle D = 130.54^\circ$ ,  $\angle E = 22.33^\circ$ ,  $\angle F = 27.13^\circ$
- (iv)  $\angle D = 129.52^\circ$ ,  $\angle E = 23.95^\circ$ ,  $\angle F = 26.53^\circ$
- (v)  $\angle D = 45^\circ$ ,  $\angle E = 90^\circ$ ,  $\angle F = 45^\circ$

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



- (i)  $\angle G = 42.88^\circ$ ,  $\angle H = 90^\circ$ ,  $\angle I = 47.12^\circ$
- (ii)  $\angle G = 45^\circ$ ,  $\angle H = 90^\circ$ ,  $\angle I = 45^\circ$
- (iii)  $\angle G = 106.2^\circ$ ,  $\angle H = 38.62^\circ$ ,  $\angle I = 35.18^\circ$
- (iv)  $\angle G = 55.3^\circ$ ,  $\angle H = 76.33^\circ$ ,  $\angle I = 48.37^\circ$
- (v)  $\angle G = 57.12^\circ$ ,  $\angle H = 78.46^\circ$ ,  $\angle I = 44.42^\circ$

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

- (i) OP = 13 cm, PQ = 14 cm, QO = 13 cm
- (ii) OP = 12 cm, PQ = 15 cm, QO = 14 cm
- (iii) OP = 10 cm, PQ = 10 cm, QO = 14.14 cm
- (iv) OP = 15 cm, PQ = 15 cm, QO = 15 cm
- (v) OP = 11 cm, PQ = 10 cm, QO = 14.87 cm

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

- (i) CD = 12 cm, DE = 13 cm, EC = 14 cm
- (ii) CD = 14 cm, DE = 13 cm, EC = 19.1 cm

- (iii)  $CD = 10 \text{ cm}$  ,  $DE = 11 \text{ cm}$  ,  $EC = 15 \text{ cm}$
  - (iv)  $CD = 14 \text{ cm}$  ,  $DE = 11 \text{ cm}$  ,  $EC = 14 \text{ cm}$
  - (v)  $CD = 10 \text{ cm}$  ,  $DE = 10 \text{ cm}$  ,  $EC = 10 \text{ cm}$
- 

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

- (i)  $AB = 13 \text{ cm}$  ,  $BC = 11 \text{ cm}$  ,  $CA = 13 \text{ cm}$
  - (ii)  $AB = 13 \text{ cm}$  ,  $BC = 15 \text{ cm}$  ,  $CA = 12 \text{ cm}$
  - (iii)  $AB = 12 \text{ cm}$  ,  $BC = 12 \text{ cm}$  ,  $CA = 16.97 \text{ cm}$
  - (iv)  $AB = 11 \text{ cm}$  ,  $BC = 12 \text{ cm}$  ,  $CA = 11 \text{ cm}$
  - (v)  $AB = 15 \text{ cm}$  ,  $BC = 15 \text{ cm}$  ,  $CA = 15 \text{ cm}$
- 

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

- (i)  $BC = 15 \text{ cm}$  ,  $CD = 15 \text{ cm}$  ,  $DB = 15 \text{ cm}$
  - (ii)  $BC = 12 \text{ cm}$  ,  $CD = 19 \text{ cm}$  ,  $DB = 10 \text{ cm}$
  - (iii)  $BC = 13 \text{ cm}$  ,  $CD = 15 \text{ cm}$  ,  $DB = 19.85 \text{ cm}$
  - (iv)  $BC = 14 \text{ cm}$  ,  $CD = 12 \text{ cm}$  ,  $DB = 13 \text{ cm}$
  - (v)  $BC = 15 \text{ cm}$  ,  $CD = 10 \text{ cm}$  ,  $DB = 12 \text{ cm}$
- 

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

- (i)  $IJ = 11 \text{ cm}$  ,  $JK = 11 \text{ cm}$  ,  $KI = 15.56 \text{ cm}$
  - (ii)  $IJ = 13 \text{ cm}$  ,  $JK = 15 \text{ cm}$  ,  $KI = 14 \text{ cm}$
  - (iii)  $IJ = 12 \text{ cm}$  ,  $JK = 22 \text{ cm}$  ,  $KI = 15 \text{ cm}$
  - (iv)  $IJ = 11 \text{ cm}$  ,  $JK = 11 \text{ cm}$  ,  $KI = 11 \text{ cm}$
  - (v)  $IJ = 12 \text{ cm}$  ,  $JK = 12 \text{ cm}$  ,  $KI = 12 \text{ cm}$
- 

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

- (i)  $NO = 11 \text{ cm}$  ,  $OP = 19 \text{ cm}$  ,  $PN = 11 \text{ cm}$
  - (ii)  $NO = 15 \text{ cm}$  ,  $OP = 15 \text{ cm}$  ,  $PN = 21.21 \text{ cm}$
  - (iii)  $NO = 14 \text{ cm}$  ,  $OP = 13 \text{ cm}$  ,  $PN = 19.1 \text{ cm}$
  - (iv)  $NO = 15 \text{ cm}$  ,  $OP = 25 \text{ cm}$  ,  $PN = 12 \text{ cm}$
  - (v)  $NO = 15 \text{ cm}$  ,  $OP = 10 \text{ cm}$  ,  $PN = 14 \text{ cm}$
- 

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

- (i)  $KL = 12 \text{ cm}$  ,  $LM = 14 \text{ cm}$  ,  $MK = 10 \text{ cm}$
- (ii)  $KL = 12 \text{ cm}$  ,  $LM = 14 \text{ cm}$  ,  $MK = 12 \text{ cm}$

- (iii)  $KL = 11 \text{ cm}$  ,  $LM = 20 \text{ cm}$  ,  $MK = 11 \text{ cm}$
  - (iv)  $KL = 13 \text{ cm}$  ,  $LM = 11 \text{ cm}$  ,  $MK = 17.03 \text{ cm}$
  - (v)  $KL = 12 \text{ cm}$  ,  $LM = 12 \text{ cm}$  ,  $MK = 16.97 \text{ cm}$
- 

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

- (i)  $\angle E = 53.13^\circ$  ,  $\angle F = 59.49^\circ$  ,  $\angle G = 67.38^\circ$
  - (ii)  $\angle E = 71.38^\circ$  ,  $\angle F = 54.31^\circ$  ,  $\angle G = 54.31^\circ$
  - (iii)  $\angle E = 40.91^\circ$  ,  $\angle F = 90^\circ$  ,  $\angle G = 49.09^\circ$
  - (iv)  $\angle E = 45^\circ$  ,  $\angle F = 90^\circ$  ,  $\angle G = 45^\circ$
  - (v)  $\angle E = 60^\circ$  ,  $\angle F = 60^\circ$  ,  $\angle G = 60^\circ$
- 

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

- (i)  $\angle G = 60^\circ$  ,  $\angle H = 60^\circ$  ,  $\angle I = 60^\circ$
  - (ii)  $\angle G = 49.4^\circ$  ,  $\angle H = 90^\circ$  ,  $\angle I = 40.6^\circ$
  - (iii)  $\angle G = 57.12^\circ$  ,  $\angle H = 78.46^\circ$  ,  $\angle I = 44.42^\circ$
  - (iv)  $\angle G = 48.37^\circ$  ,  $\angle H = 76.33^\circ$  ,  $\angle I = 55.3^\circ$
  - (v)  $\angle G = 97.18^\circ$  ,  $\angle H = 41.41^\circ$  ,  $\angle I = 41.41^\circ$
- 

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

- (i)  $\angle J = 45^\circ$  ,  $\angle K = 90^\circ$  ,  $\angle L = 45^\circ$
  - (ii)  $\angle J = 79.04^\circ$  ,  $\angle K = 50.48^\circ$  ,  $\angle L = 50.48^\circ$
  - (iii)  $\angle J = 60^\circ$  ,  $\angle K = 60^\circ$  ,  $\angle L = 60^\circ$
  - (iv)  $\angle J = 83.47^\circ$  ,  $\angle K = 45.21^\circ$  ,  $\angle L = 51.32^\circ$
- 

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

- (i)  $\angle I = 54.46^\circ$  ,  $\angle J = 90^\circ$  ,  $\angle K = 35.54^\circ$
  - (ii)  $\angle I = 40.16^\circ$  ,  $\angle J = 75.31^\circ$  ,  $\angle K = 64.53^\circ$
  - (iii)  $\angle I = 73.69^\circ$  ,  $\angle J = 43.28^\circ$  ,  $\angle K = 63.03^\circ$
  - (iv)  $\angle I = 60^\circ$  ,  $\angle J = 60^\circ$  ,  $\angle K = 60^\circ$
  - (v)  $\angle I = 112.88^\circ$  ,  $\angle J = 33.56^\circ$  ,  $\angle K = 33.56^\circ$
- 

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

- (i)  $\angle M = 60^\circ$  ,  $\angle N = 60^\circ$  ,  $\angle O = 60^\circ$
- (ii)  $\angle M = 117.82^\circ$  ,  $\angle N = 33.56^\circ$  ,  $\angle O = 28.62^\circ$
- (iii)  $\angle M = 45^\circ$  ,  $\angle N = 90^\circ$  ,  $\angle O = 45^\circ$

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

(v)  $\angle M = 53.13^\circ$ ,  $\angle N = 73.74^\circ$ ,  $\angle O = 53.13^\circ$

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

(i)  $\angle P = 127.38^\circ$ ,  $\angle Q = 25.33^\circ$ ,  $\angle R = 27.29^\circ$

(ii)  $\angle P = 33.69^\circ$ ,  $\angle Q = 90^\circ$ ,  $\angle R = 56.31^\circ$

(iii)  $\angle P = 62.18^\circ$ ,  $\angle Q = 62.18^\circ$ ,  $\angle R = 55.64^\circ$

(iv)  $\angle P = 101.53^\circ$ ,  $\angle Q = 34.05^\circ$ ,  $\angle R = 44.42^\circ$

(v)  $\angle P = 45^\circ$ ,  $\angle Q = 90^\circ$ ,  $\angle R = 45^\circ$

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

(i)  $\angle I = 125.43^\circ$ ,  $\angle J = 28.38^\circ$ ,  $\angle K = 26.19^\circ$

(ii)  $\angle I = 45^\circ$ ,  $\angle J = 90^\circ$ ,  $\angle K = 45^\circ$

(iii)  $\angle I = 76.87^\circ$ ,  $\angle J = 45.57^\circ$ ,  $\angle K = 57.56^\circ$

(iv)  $\angle I = 77.36^\circ$ ,  $\angle J = 51.32^\circ$ ,  $\angle K = 51.32^\circ$

(v)  $\angle I = 42.27^\circ$ ,  $\angle J = 90^\circ$ ,  $\angle K = 47.73^\circ$

---

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

(i)  $MN = 7 \text{ cm}$ ,  $NO = 5 \text{ cm}$ ,  $OM = 13 \text{ cm}$

(ii)  $MN = 5 \text{ cm}$ ,  $NO = 14 \text{ cm}$ ,  $OM = 6 \text{ cm}$

(iii)  $MN = 10 \text{ cm}$ ,  $NO = 14 \text{ cm}$ ,  $OM = 12 \text{ cm}$

(iv)  $MN = 15 \text{ cm}$ ,  $NO = 5 \text{ cm}$ ,  $OM = 8 \text{ cm}$

(v)  $MN = 15 \text{ cm}$ ,  $NO = 8 \text{ cm}$ ,  $OM = 5 \text{ cm}$

---

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

(i)  $\angle P = 51.32^\circ$ ,  $\angle Q = 77.36^\circ$ ,  $\angle R = 51.32^\circ$

(ii)  $\angle P = 116.30^\circ$ ,  $\angle Q = 37.60^\circ$ ,  $\angle R = 69.70^\circ$

(iii)  $\angle P = 86.10^\circ$ ,  $\angle Q = 108.40^\circ$ ,  $\angle R = 79.10^\circ$

(iv)  $\angle P = 117.70^\circ$ ,  $\angle Q = 102.50^\circ$ ,  $\angle R = 120.20^\circ$

(v)  $\angle P = 64.20^\circ$ ,  $\angle Q = 113.10^\circ$ ,  $\angle R = 92.60^\circ$

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## Assignment Key

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