EduSahara™ Assignment

Name : Types of Triangles

Chapter : Triangles

Grade : ICSE Grade VI

License : Non Commercial Use

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

   (i) MN = 15 cm , NO = 15 cm , OM = 15 cm (ii) MN = 13 cm , NO = 11 cm , OM = 17.03 cm

   (iii) MN = 12 cm , NO = 13 cm , OM = 12 cm (iv) MN = 13 cm , NO = 13 cm , OM = 18.38 cm

   (v) MN = 12 cm , NO = 15 cm , OM = 13 cm

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

   (i) LM = 11 cm , MN = 12 cm , NL = 16.28 cm (ii) LM = 13 cm , MN = 13 cm , NL = 13 cm

   (iii) LM = 14 cm , MN = 11 cm , NL = 13 cm (iv) LM = 12 cm , MN = 10 cm , NL = 14 cm

   (v) LM = 10 cm , MN = 15 cm , NL = 10 cm

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

   (i) PQ = 15 cm , QR = 11 cm , RP = 10 cm (ii) PQ = 12 cm , QR = 12 cm , RP = 12 cm

   (iii) PQ = 12 cm , QR = 13 cm , RP = 12 cm (iv) PQ = 14 cm , QR = 14 cm , RP = 19.8 cm

   (v) PQ = 13 cm , QR = 14 cm , RP = 13 cm

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

   (i) CD = 14 cm , DE = 13 cm , EC = 19.1 cm (ii) CD = 12 cm , DE = 22 cm , EC = 12 cm

   (iii) CD = 12 cm , DE = 12 cm , EC = 13 cm (iv) CD = 13 cm , DE = 13 cm , EC = 13 cm

   (v) CD = 14 cm , DE = 13 cm , EC = 15 cm

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

   (i) BC = 10 cm , CD = 10 cm , DB = 12 cm (ii) BC = 12 cm , CD = 12 cm , DB = 16.97 cm

   (iii) BC = 14 cm , CD = 22 cm , DB = 10 cm (iv) BC = 15 cm , CD = 15 cm , DB = 15 cm

   (v) BC = 10 cm , CD = 13 cm , DB = 12 cm

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

   (i) KL = 12 cm , LM = 10 cm , MK = 15.62 cm (ii) KL = 14 cm , LM = 21 cm , MK = 11 cm

   (iii) KL = 11 cm , LM = 15 cm , MK = 13 cm (iv) KL = 15 cm , LM = 15 cm , MK = 21.21 cm

   (v) KL = 10 cm , LM = 17 cm , MK = 10 cm

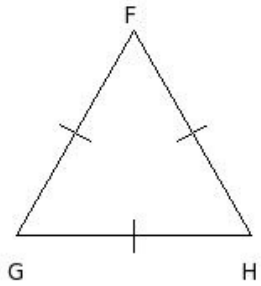
7. Which of the following are measures of an obtuse angled triangle ?

   (i) CD = 10 cm , DE = 13 cm , EC = 11 cm (ii) CD = 13 cm , DE = 15 cm , EC = 13 cm

   (iii) CD = 15 cm , DE = 23 cm , EC = 14 cm (iv) CD = 10 cm , DE = 10 cm , EC = 14.14 cm

   (v) CD = 13 cm , DE = 14 cm , EC = 19.1 cm

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

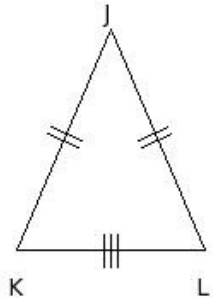



(i) FG = 12 cm , GH = 11 cm , HF = 16.28 cm (ii) FG = 15 cm , GH = 15 cm , HF = 21.21 cm

(iii) FG = 13 cm , GH = 15 cm , HF = 13 cm (iv) FG = 14 cm , GH = 14 cm , HF = 14 cm

(v) FG = 13 cm , GH = 10 cm , HF = 12 cm

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

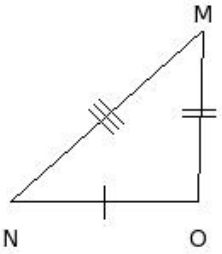



(i) JK = 10 cm , KL = 11 cm , LJ = 12 cm (ii) JK = 14 cm , KL = 13 cm , LJ = 19.1 cm

(iii) JK = 10 cm , KL = 10 cm , LJ = 10 cm (iv) JK = 14 cm , KL = 11 cm , LJ = 14 cm

(v) JK = 10 cm , KL = 12 cm , LJ = 14 cm

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

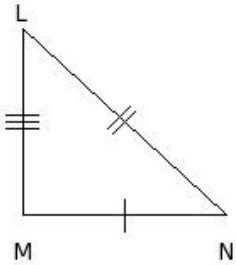



(i) MN = 15 cm , NO = 11 cm , OM = 10 cm (ii) MN = 12 cm , NO = 11 cm , OM = 12 cm

(iii) MN = 11 cm , NO = 12 cm , OM = 11 cm (iv) MN = 15 cm , NO = 15 cm , OM = 21.21 cm

(v) MN = 13 cm , NO = 13 cm , OM = 13 cm

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

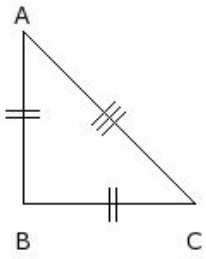



(i) LM = 11 cm , MN = 12 cm , NL = 16.28 cm (ii) LM = 12 cm , MN = 25 cm , NL = 15 cm

(iii) LM = 12 cm , MN = 12 cm , NL = 12 cm (iv) LM = 11 cm , MN = 12 cm , NL = 10 cm

(v) LM = 14 cm , MN = 12 cm , NL = 13 cm

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

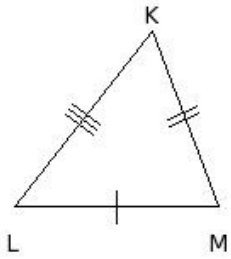



(i) AB = 10 cm , BC = 10 cm , CA = 14.14 cm (ii) AB = 14 cm , BC = 13 cm , CA = 10 cm

(iii) AB = 14 cm , BC = 13 cm , CA = 15 cm (iv) AB = 14 cm , BC = 14 cm , CA = 14 cm

(v) AB = 15 cm , BC = 23 cm , CA = 12 cm

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

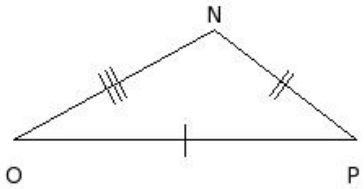



(i) KL = 12 cm , LM = 17 cm , MK = 10 cm (ii) KL = 10 cm , LM = 17 cm , MK = 10 cm

(iii) KL = 15 cm , LM = 15 cm , MK = 21.21 cm (iv) KL = 13 cm , LM = 12 cm , MK = 11 cm

(v) KL = 15 cm , LM = 11 cm , MK = 18.6 cm

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




(i) NO = 15 cm , OP = 15 cm , PN = 21.21 cm (ii) NO = 13 cm , OP = 10 cm , PN = 15 cm

(iii) NO = 13 cm , OP = 15 cm , PN = 19.85 cm (iv) NO = 12 cm , OP = 12 cm , PN = 11 cm

(v) NO = 14 cm , OP = 21 cm , PN = 11 cm

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

(i) $\angle I = 45°$ , $\angle J = 90°$ , $\angle K = 45°$ (ii) $\angle I = 49.76°$ , $\angle J = 90°$ , $\angle K = 40.24°$

(iii) $\angle I = 60°$ , $\angle J = 60°$ , $\angle K = 60°$ (iv) $\angle I = 47.91°$ , $\angle J = 70.81°$ , $\angle K = 61.28°$

(v) $\angle I = 54.56°$ , $\angle J = 62.72°$ , $\angle K = 62.72°$

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

(i) $\angle B = 49.32°$ , $\angle C = 74.85°$ , $\angle D = 55.83°$ (ii) $\angle B = 50.19°$ , $\angle C = 90°$ , $\angle D = 39.81°$

(iii) $\angle B = 45.24°$ , $\angle C = 67.38°$ , $\angle D = 67.38°$ (iv) $\angle B = 60°$ , $\angle C = 60°$ , $\angle D = 60°$

(v) $\angle B = 58.67°$ , $\angle C = 41.08°$ , $\angle D = 80.25°$

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

(i) $\angle H = 60°$ , $\angle I = 60°$ , $\angle J = 60°$ (ii) $\angle H = 45°$ , $\angle I = 90°$ , $\angle J = 45°$

(iii) $\angle H = 65.16°$ , $\angle I = 57.42°$ , $\angle J = 57.42°$ (iv) $\angle H = 78.46°$ , $\angle I = 57.12°$ , $\angle J = 44.42°$

(v) $\angle H = 97.18°$ , $\angle I = 41.41°$ , $\angle J = 41.41°$

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

(i) $\angle E = 88.86°$ , $\angle F = 45.57°$ , $\angle G = 45.57°$ (ii) $\angle E = 47.49°$ , $\angle F = 90°$ , $\angle G = 42.51°$

(iii) $\angle E = 60°$ , $\angle F = 60°$ , $\angle G = 60°$ (iv) $\angle E = 74.85°$ , $\angle F = 55.83°$ , $\angle G = 49.32°$

(v) $\angle E = 114.22°$ , $\angle F = 31.41°$ , $\angle G = 34.37°$

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

(i) $\angle P = 60°$ , $\angle Q = 60°$ , $\angle R = 60°$ (ii) $\angle P = 48.74°$ , $\angle Q = 61.28°$ , $\angle R = 69.98°$

(iii) $\angle P = 91.3°$ , $\angle Q = 37.66°$ , $\angle R = 51.04°$ (iv) $\angle P = 45.21°$ , $\angle Q = 83.47°$ , $\angle R = 51.32°$

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

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

(i) $\angle H = 67.38°$ , $\angle I = 45.24°$ , $\angle J = 67.38°$ (ii) $\angle H = 116.78°$ , $\angle I = 30.3°$ , $\angle J = 32.92°$

(iii) $\angle H = 37.57°$ , $\angle I = 90°$ , $\angle J = 52.43°$ (iv) $\angle H = 45°$ , $\angle I = 90°$ , $\angle J = 45°$

(v) $\angle H = 92.87°$ , $\angle I = 38.62°$ , $\angle J = 48.51°$

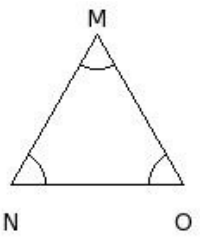
21. Which of the following are measures of an obtuse angled triangle ?

(i) $\angle I = 33.69°$ , $\angle J = 90°$ , $\angle K = 56.31°$ (ii) $\angle I = 111.32°$ , $\angle J = 32.64°$ , $\angle K = 36.04°$

(iii) $\angle I = 64.63°$ , $\angle J = 50.75°$ , $\angle K = 64.62°$ (iv) $\angle I = 45°$ , $\angle J = 90°$ , $\angle K = 45°$

(v) $\angle I = 64.97°$ , $\angle J = 50.06°$ , $\angle K = 64.97°$

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

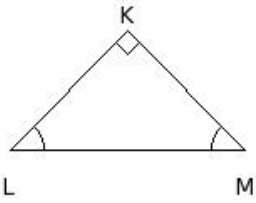



(i) $\angle M = 43.28°$ , $\angle N = 63.03°$ , $\angle O = 73.69°$ (ii) $\angle M = 45°$ , $\angle N = 90°$ , $\angle O = 45°$

(iii) $\angle M = 70.46°$ , $\angle N = 54.77°$ , $\angle O = 54.77°$ (iv) $\angle M = 47.29°$ , $\angle N = 90°$ , $\angle O = 42.71°$

(v) $\angle M = 60°$ , $\angle N = 60°$ , $\angle O = 60°$

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

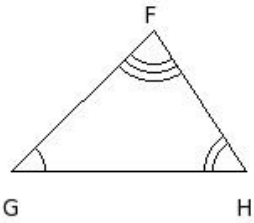



(i) $\angle K = 88.86°$ , $\angle L = 45.57°$ , $\angle M = 45.57°$ (ii) $\angle K = 54.46°$ , $\angle L = 90°$ , $\angle M = 35.54°$

(iii) $\angle K = 60°$ , $\angle L = 60°$ , $\angle M = 60°$ (iv) $\angle K = 55.3°$ , $\angle L = 48.37°$ , $\angle M = 76.33°$

(v) $\angle K = 75.31°$ , $\angle L = 40.16°$ , $\angle M = 64.53°$

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

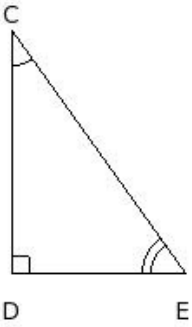



(i) $\angle F = 77.36°$ , $\angle G = 51.32°$ , $\angle H = 51.32°$ (ii) $\angle F = 78.46°$ , $\angle G = 44.42°$ , $\angle H = 57.12°$

(iii) $\angle F = 60°$ , $\angle G = 60°$ , $\angle H = 60°$ (iv) $\angle F = 45°$ , $\angle G = 90°$ , $\angle H = 45°$

(v) $\angle F = 72.44°$ , $\angle G = 53.78°$ , $\angle H = 53.78°$

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

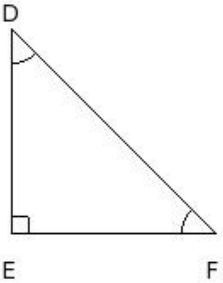



(i) $\angle C = 73.69°$ , $\angle D = 43.28°$ , $\angle E = 63.03°$ (ii) $\angle C = 35.54°$ , $\angle D = 90°$ , $\angle E = 54.46°$

(iii) $\angle C = 55.33°$ , $\angle D = 62.33°$ , $\angle E = 62.34°$ (iv) $\angle C = 97.18°$ , $\angle D = 41.41°$ , $\angle E = 41.41°$

(v) $\angle C = 60°$ , $\angle D = 60°$ , $\angle E = 60°$

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

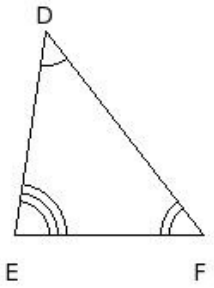



(i) $\angle D = 45°$ , $\angle E = 90°$ , $\angle F = 45°$ (ii) $\angle D = 111.32°$ , $\angle E = 36.04°$ , $\angle F = 32.64°$

(iii) $\angle D = 49.32°$ , $\angle E = 74.85°$ , $\angle F = 55.83°$ (iv) $\angle D = 51.32°$ , $\angle E = 45.21°$ , $\angle F = 83.47°$

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

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

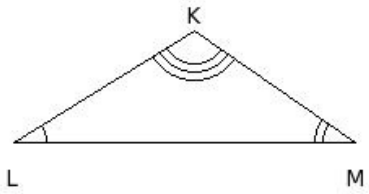



(i) ∠D = 43.03° , ∠E = 90° , ∠F = 46.97° (ii) ∠D = 45° , ∠E = 90° , ∠F = 45°

(iii) ∠D = 132.72° , ∠E = 25.73° , ∠F = 21.55° (iv) ∠D = 46.46° , ∠E = 81.28° , ∠F = 52.26°

(v) ∠D = 100.56° , ∠E = 39.72° , ∠F = 39.72°

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




(i) ∠K = 114.22° , ∠L = 31.41° , ∠M = 34.37° (ii) ∠K = 45° , ∠L = 90° , ∠M = 45°

(iii) ∠K = 64.63° , ∠L = 64.62° , ∠M = 50.75° (iv) ∠K = 52.89° , ∠L = 41.65° , ∠M = 85.46°

(v) ∠K = 50.19° , ∠L = 90° , ∠M = 39.81°

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

(i) OP = 6 cm , PQ = 7 cm , QO = 16 cm (ii) OP = 15 cm , PQ = 11 cm , QO = 10 cm

(iii) OP = 20 cm , PQ = 7 cm , QO = 10 cm (iv) OP = 14 cm , PQ = 6 cm , QO = 5 cm

(v) OP = 5 cm , PQ = 11 cm , QO = 19 cm

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

(i) ∠O = 109.40° , ∠P = 92.30° , ∠Q = 77.90° (ii) ∠O = 113.50° , ∠P = 106.20° , ∠Q = 33.10°

(iii) ∠O = 76.80° , ∠P = 76.50° , ∠Q = 100.90° (iv) ∠O = 73.62° , ∠P = 50.13° , ∠Q = 56.25°

(v) ∠O = 72.50° , ∠P = 31.80° , ∠Q = 111.70°

## Assignment Key

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

Copyright © Small Systems Computing Pvt. Ltd.