# EduSahara™ Learning Center Assignment

**Grade : Class VI, ICSE**
**Chapter : Triangles**
**Name : Types of Triangles**
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1. Which of the following are measures of an equilateral triangle ?

   (i) LM = 11 cm , MN = 15 cm , NL = 11 cm

   (ii) LM = 11 cm , MN = 11 cm , NL = 15.56 cm

   (iii) LM = 11 cm , MN = 15 cm , NL = 14 cm

   (iv) LM = 14 cm , MN = 14 cm , NL = 14 cm

   (v) LM = 14 cm , MN = 13 cm , NL = 19.1 cm

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

   (i) LM = 13 cm , MN = 14 cm , NL = 13 cm

   (ii) LM = 11 cm , MN = 10 cm , NL = 13 cm

   (iii) LM = 14 cm , MN = 14 cm , NL = 14 cm

   (iv) LM = 15 cm , MN = 10 cm , NL = 18.03 cm

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

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

   (i) EF = 12 cm , FG = 13 cm , GE = 12 cm

   (ii) EF = 14 cm , FG = 14 cm , GE = 19.8 cm

   (iii) EF = 10 cm , FG = 10 cm , GE = 10 cm

   (iv) EF = 11 cm , FG = 14 cm , GE = 13 cm

   (v) EF = 13 cm , FG = 10 cm , GE = 13 cm

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

   (i) OP = 12 cm , PQ = 13 cm , QO = 15 cm

   (ii) OP = 10 cm , PQ = 11 cm , QO = 14.87 cm

   (iii) OP = 12 cm , PQ = 12 cm , QO = 12 cm

   (iv) OP = 14 cm , PQ = 22 cm , QO = 15 cm

   (v) OP = 11 cm , PQ = 12 cm , QO = 10 cm

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

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

(ii) MN = 15 cm , NO = 26 cm , OM = 13 cm

(iii) MN = 13 cm , NO = 15 cm , OM = 15 cm

(iv) MN = 15 cm , NO = 15 cm , OM = 21.21 cm

(v) MN = 14 cm , NO = 14 cm , OM = 14 cm

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

(i) LM = 15 cm , MN = 10 cm , NL = 18.03 cm

(ii) LM = 14 cm , MN = 14 cm , NL = 19.8 cm

(iii) LM = 13 cm , MN = 20 cm , NL = 11 cm

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

(v) LM = 10 cm , MN = 19 cm , NL = 15 cm

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

(i) EF = 10 cm , FG = 17 cm , GE = 13 cm

(ii) EF = 11 cm , FG = 12 cm , GE = 10 cm

(iii) EF = 11 cm , FG = 11 cm , GE = 15.56 cm

(iv) EF = 12 cm , FG = 10 cm , GE = 15.62 cm

(v) EF = 10 cm , FG = 12 cm , GE = 11 cm

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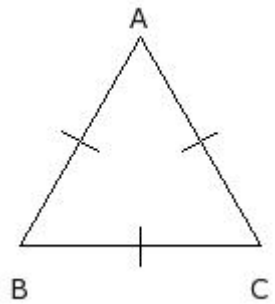
8. Which of the following are measures of an equilateral triangle ?




(i) AB = 12 cm , BC = 11 cm , CA = 16.28 cm

(ii) AB = 15 cm , BC = 15 cm , CA = 21.21 cm

(iii) AB = 12 cm , BC = 12 cm , CA = 12 cm

(iv) AB = 10 cm , BC = 11 cm , CA = 10 cm

(v) AB = 11 cm , BC = 10 cm , CA = 13 cm

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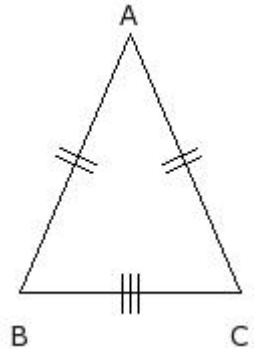
9. Which of the following are measures of an isosceles triangle ?




(i) AB = 15 cm , BC = 14 cm , CA = 13 cm

(ii) AB = 14 cm , BC = 10 cm , CA = 17.2 cm

(iii) AB = 14 cm , BC = 11 cm , CA = 14 cm

(iv) AB = 14 cm , BC = 11 cm , CA = 12 cm

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

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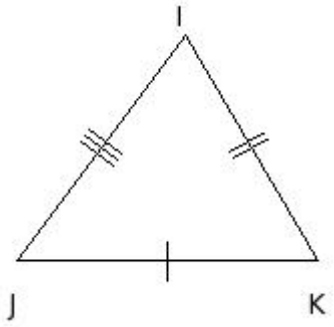
10. Which of the following are measures of a scalene triangle ?




(i) IJ = 13 cm , JK = 11 cm , KI = 13 cm

(ii) IJ = 13 cm , JK = 15 cm , KI = 13 cm

(iii) IJ = 15 cm , JK = 15 cm , KI = 21.21 cm

(iv) IJ = 11 cm , JK = 11 cm , KI = 11 cm

(v) IJ = 14 cm , JK = 15 cm , KI = 13 cm

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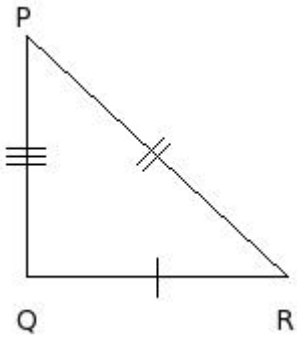
11. Which of the following are measures of a right angled triangle ?



(i) PQ = 12 cm , QR = 13 cm , RP = 17.69 cm

(ii) PQ = 13 cm , QR = 13 cm , RP = 13 cm

(iii) PQ = 12 cm , QR = 21 cm , RP = 15 cm

(iv) PQ = 12 cm , QR = 13 cm , RP = 11 cm

(v) PQ = 11 cm , QR = 12 cm , RP = 14 cm

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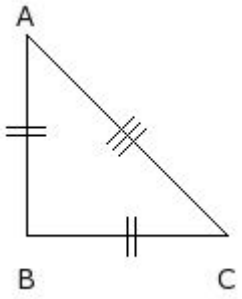
12. Which of the following are measures of an isosceles right angled triangle ?




(i) AB = 10 cm , BC = 10 cm , CA = 14.14 cm

(ii) AB = 15 cm , BC = 10 cm , CA = 11 cm

(iii) AB = 11 cm , BC = 22 cm , CA = 14 cm

(iv) AB = 14 cm , BC = 14 cm , CA = 14 cm

(v) AB = 11 cm , BC = 14 cm , CA = 11 cm

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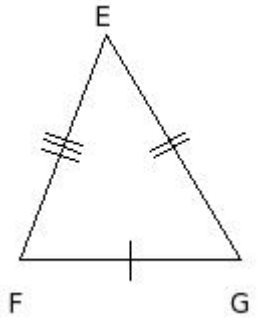
13. Which of the following are measures of an acute angled triangle ?




(i) EF = 12 cm , FG = 12 cm , GE = 16.97 cm

(ii) EF = 10 cm , FG = 20 cm , GE = 14 cm

(iii) EF = 10 cm , FG = 17 cm , GE = 10 cm

(iv) EF = 12 cm , FG = 11 cm , GE = 13 cm

(v) EF = 15 cm , FG = 14 cm , GE = 20.52 cm

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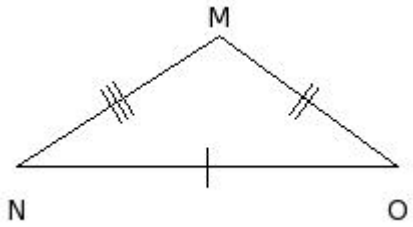
14. Which of the following are measures of an obtuse angled triangle ?




(i) MN = 12 cm , NO = 12 cm , OM = 16.97 cm

(ii) MN = 11 cm , NO = 11 cm , OM = 12 cm

(iii) MN = 15 cm , NO = 13 cm , OM = 19.85 cm

(iv) MN = 12 cm , NO = 19 cm , OM = 11 cm

(v) MN = 10 cm , NO = 11 cm , OM = 12 cm

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

(i) ∠K = 75.31° , ∠L = 40.16° , ∠M = 64.53°

(ii) ∠K = 42.88° , ∠L = 90° , ∠M = 47.12°

(iii) ∠K = 60° , ∠L = 60° , ∠M = 60°

(iv) ∠K = 45° , ∠L = 90° , ∠M = 45°

(v) ∠K = 66.12° , ∠L = 56.94° , ∠M = 56.94°

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

(i) ∠K = 45.24° , ∠L = 67.38° , ∠M = 67.38°

(ii) ∠K = 60° , ∠L = 60° , ∠M = 60°

(iii) ∠K = 63.03° , ∠L = 73.69° , ∠M = 43.28°

(iv) ∠K = 35.54° , ∠L = 90° , ∠M = 54.46°

(v) ∠K = 61.28° , ∠L = 47.91° , ∠M = 70.81°

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

(i) ∠I = 73.74° , ∠J = 53.13° , ∠K = 53.13°

(ii) ∠I = 45° , ∠J = 90° , ∠K = 45°

(iii) ∠I = 54.56° , ∠J = 62.72° , ∠K = 62.72°

(iv) ∠I = 56.25° , ∠J = 73.62° , ∠K = 50.13°

(v) ∠I = 60° , ∠J = 60° , ∠K = 60°

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

(i) ∠B = 105.64° , ∠C = 31.98° , ∠D = 42.38°

(ii) ∠B = 52.89° , ∠C = 41.65° , ∠D = 85.46°

(iii) ∠B = 37.57° , ∠C = 90° , ∠D = 52.43°

(iv) ∠B = 67.38° , ∠C = 53.13° , ∠D = 59.49°

(v) ∠B = 60° , ∠C = 60° , ∠D = 60°

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

(i) ∠N = 134.76° , ∠O = 22.62° , ∠P = 22.62°

(ii) ∠N = 44.42° , ∠O = 62.96° , ∠P = 72.62°

(iii) ∠N = 45° , ∠O = 90° , ∠P = 45°

(iv) ∠N = 60° , ∠O = 60° , ∠P = 60°

(v) ∠N = 75.31° , ∠O = 40.16° , ∠P = 64.53°

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

(i) ∠B = 54.46° , ∠C = 90° , ∠D = 35.54°

(ii) ∠B = 45° , ∠C = 90° , ∠D = 45°

(iii) ∠B = 134.18° , ∠C = 26.63° , ∠D = 19.19°

(iv) ∠B = 54.77° , ∠C = 54.77° , ∠D = 70.46°

(v) ∠B = 120.14° , ∠C = 29.93° , ∠D = 29.93°

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

(i) ∠E = 45° , ∠F = 90° , ∠G = 45°

(ii) ∠E = 45.57° , ∠F = 57.56° , ∠G = 76.87°

(iii) ∠E = 120.25° , ∠F = 34.16° , ∠G = 25.59°

(iv) ∠E = 47.12° , ∠F = 90° , ∠G = 42.88°

(v) ∠E = 54.97° , ∠F = 62.52° , ∠G = 62.51°

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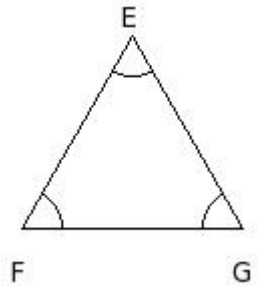
22. Which of the following are measures of an equilateral triangle ?




(i) ∠E = 69.98° , ∠F = 61.28° , ∠G = 48.74°

(ii) ∠E = 64.78° , ∠F = 57.61° , ∠G = 57.61°

(iii) ∠E = 45° , ∠F = 90° , ∠G = 45°

(iv) ∠E = 42.88° , ∠F = 90° , ∠G = 47.12°

(v) ∠E = 60° , ∠F = 60° , ∠G = 60°

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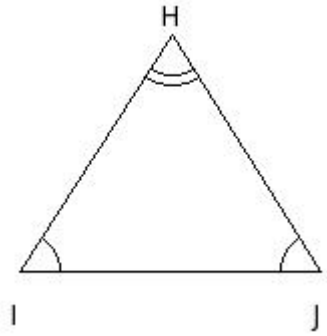
23. Which of the following are measures of an isosceles triangle ?




(i) ∠H = 49.76° , ∠I = 90° , ∠J = 40.24°

(ii) ∠H = 60° , ∠I = 60° , ∠J = 60°

(iii) ∠H = 64.78° , ∠I = 57.61° , ∠J = 57.61°

(iv) ∠H = 47.91° , ∠I = 70.81° , ∠J = 61.28°

(v) ∠H = 76.87° , ∠I = 45.57° , ∠J = 57.56°

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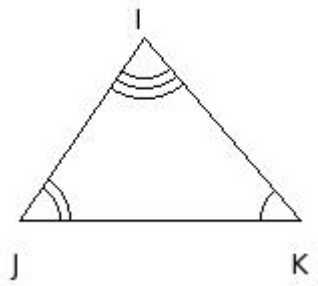
24. Which of the following are measures of a scalene triangle ?




(i) ∠I = 60° , ∠J = 60° , ∠K = 60°

(ii) ∠I = 46.26° , ∠J = 66.87° , ∠K = 66.87°

(iii) ∠I = 74.85° , ∠J = 55.83° , ∠K = 49.32°

(iv) ∠I = 45° , ∠J = 90° , ∠K = 45°

(v) ∠I = 72.44° , ∠J = 53.78° , ∠K = 53.78°

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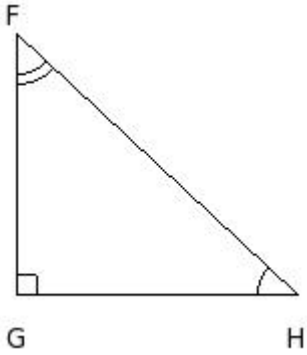
25. Which of the following are measures of a right angled triangle ?




(i) ∠F = 112.88° , ∠G = 33.56° , ∠H = 33.56°

(ii) ∠F = 47.12° , ∠G = 90° , ∠H = 42.88°

(iii) ∠F = 51.32° , ∠G = 69.51° , ∠H = 59.17°

(iv) ∠F = 60° , ∠G = 60° , ∠H = 60°

(v) ∠F = 41.65° , ∠G = 52.89° , ∠H = 85.46°

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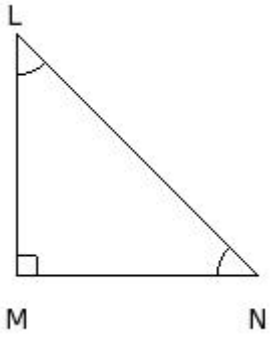
26. Which of the following are measures of an isosceles right angled triangle ?




(i) ∠L = 67.38° , ∠M = 67.38° , ∠N = 45.24°

(ii) ∠L = 40.16° , ∠M = 75.31° , ∠N = 64.53°

(iii) ∠L = 60° , ∠M = 60° , ∠N = 60°

(iv) ∠L = 121.19° , ∠M = 24.04° , ∠N = 34.77°

(v) ∠L = 45° , ∠M = 90° , ∠N = 45°

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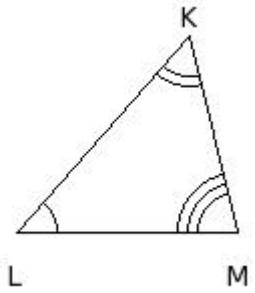
27. Which of the following are measures of an acute angled triangle ?



(i) ∠K = 53.75° , ∠L = 90° , ∠M = 36.25°

(ii) ∠K = 55.3° , ∠L = 48.37° , ∠M = 76.33°

(iii) ∠K = 120.14° , ∠L = 29.93° , ∠M = 29.93°

(iv) ∠K = 45° , ∠L = 90° , ∠M = 45°

(v) ∠K = 99.42° , ∠L = 47.72° , ∠M = 32.86°

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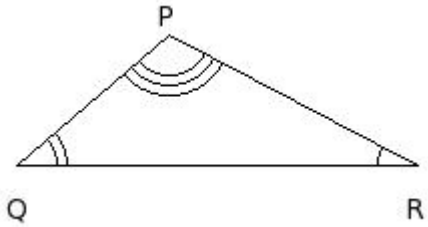
28. Which of the following are measures of an obtuse angled triangle ?




(i) ∠P = 85.98° , ∠Q = 47.01° , ∠R = 47.01°

(ii) ∠P = 63.03° , ∠Q = 73.69° , ∠R = 43.28°

(iii) ∠P = 47.49° , ∠Q = 90° , ∠R = 42.51°

(iv) ∠P = 45° , ∠Q = 90° , ∠R = 45°

(v) ∠P = 111.8° , ∠Q = 40.54° , ∠R = 27.66°

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

(i) GH = 7 cm , HI = 18 cm , IG = 6 cm

(ii) GH = 6 cm , HI = 9 cm , IG = 17 cm

(iii) GH = 19 cm , HI = 5 cm , IG = 5 cm

(iv) GH = 10 cm , HI = 10 cm , IG = 11 cm

(v) GH = 9 cm , HI = 9 cm , IG = 19 cm

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

(i) ∠C = 64.97° , ∠D = 50.06° , ∠E = 64.97°

(ii) ∠C = 102.90° , ∠D = 93.70° , ∠E = 81.70°

(iii) ∠C = 80.70° , ∠D = 75.30° , ∠E = 36.80°

(iv) ∠C = 114.70° , ∠D = 48.60° , ∠E = 56.20°

(v) ∠C = 64.20° , ∠D = 87.40° , ∠E = 34.80°

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## Assignment Key

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