

Triangle Worksheet – 3

1. Two angles of a triangle are 84° and 38° . Find the third angle.

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| a) 48° | b) 58° |
| c) 38° | d) None of these |

2. The angles of a triangle are in 2 : 3 : 4. Find the measure of each angle.

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|------------------------------------|------------------------------------|
| a) $20^\circ, 30^\circ, 130^\circ$ | b) $30^\circ, 50^\circ, 100^\circ$ |
| c) $40^\circ, 60^\circ, 80^\circ$ | d) None of these |

3. The acute angles of a right angle triangle are in 2 : 3 ratio. Find the angles of the triangle.

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|-----------------------------------|-----------------------------------|
| a) $36^\circ, 54^\circ, 80^\circ$ | b) $36^\circ, 54^\circ, 90^\circ$ |
| c) $40^\circ, 60^\circ, 80^\circ$ | d) None of these |

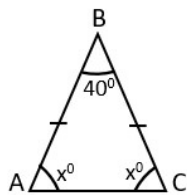
4. One of the angles of a triangle is 112° and the other two angles are equal. Find each of the equal angles.

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|---------------|---------------|
| a) 68° | b) 44° |
| c) 45° | d) 34° |

5. One of the acute angles of a right angle triangle is 40° . Find the other acute angle.

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| a) 30° | b) 40° |
| c) 50° | d) 60° |

6. In ABC triangle $AB = BC$ and $\angle B = 40^\circ$. Find each of the equal angles.



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|---------------|---------------|
| a) 70° | b) 50° |
| c) 60° | d) 80° |

7. A right angle triangle can be an equilateral triangle. Mark True / False.

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| a) True | b) False |
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8. A right angle triangle can be an isosceles triangle. Mark True / False.

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| a) True | b) False |
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9. A triangle can have all angles greater than 60° . Mark True / False.

- a) True b) False

10. A triangle can have two acute angles. Mark True / False.

- a) True b) False

11. A right triangle can have _____ angle.

- a) Acute b) Obtuse
c) Zero d) Reflex

12. A triangle can have 90° , 50° and 50° angles. Mark True / False

- a) True b) False

13. A triangle can have three sides as 6 cm, 8 cm and 10 cm. Mark True / False.

- a) True b) False

14. The sum of any two angles of a triangle is greater than the third angle. Mark True / False.

- a) True b) False

15. An isosceles triangle can be a right angle triangle. Mark True / False.

- a) True b) False

16. A scalene triangle has all its sides equal. Mark True / False.

- a) True b) False

17. A right angle triangle can have acute angle. Mark True / False.

- a) True b) False

18. Each angle of an acute triangle is less than 100° . Mark True / False.

- a) True b) False

19. If XYZ is a triangle with $\angle Y$ is equal to 90° and $XY = YZ$, then XYZ is a _____ triangle.

- a) Right Angle b) Acute
c) Obtuse d) Isosceles Right-Angle

20. If ABC is a triangle with $\angle A = 50^{\circ}$, $\angle B = 50^{\circ}$ and $\angle C = 80^{\circ}$, then ABC is a _____ triangle.

- a) Acute b) Obtuse
c) scalene d) Isosceles