



Math Worksheet for 5th Grade

Triangles

Name: _____

Due Date: _____

Teacher: _____

Parent Sign: _____

2. A triangle has sides 7 cm, 7 cm, and 10 cm. Classify by sides.
3. A triangle has sides 3 cm, 4 cm, and 5 cm. Classify by sides.
4. A triangle has sides 6 cm, 6 cm, and 9 cm. Classify by sides.
5. A triangle has sides 8 cm, 5 cm, and 8 cm. Classify by sides.
6. A triangle has sides 2 cm, 3 cm, and 4 cm. Classify by sides.
7. A triangle has sides 10 cm, 6 cm, and 4 cm. Can these lengths make a triangle? If yes, classify by sides.
8. A triangle has sides 12 cm, 5 cm, and 6 cm. Can these lengths make a triangle? If yes, classify by sides.
9. A triangle has sides 9 cm, 9 cm, and 4 cm. Classify by sides.
10. A triangle has sides 11 cm, 7 cm, and 4 cm. Classify by sides.
11. A triangle has angles 60 deg, 60 deg, and 60 deg. Classify by angles.
12. A triangle has angles 30 deg, 60 deg, and 90 deg. Classify by angles.
13. A triangle has angles 80 deg, 50 deg, and 50 deg. Classify by angles.
14. A triangle has angles 100 deg, 40 deg, and 40 deg. Classify by angles.
15. A triangle has angles 45 deg, 45 deg, and 90 deg. Classify by angles.
16. A triangle has angles 70 deg, 60 deg, and 50 deg. Classify by angles.
17. A triangle has angles 95 deg, 40 deg, and 45 deg. Classify by angles.
18. A triangle has angles 89 deg, 45 deg, and 46 deg. Classify by angles.
19. A triangle has angles 120 deg, 30 deg, and 30 deg. Classify by angles.
20. A triangle has angles 10 deg, 80 deg, and 90 deg. Classify by angles.
21. Two angles in a triangle are 40 deg and 60 deg. Find the third angle and classify the triangle by angles.
22. Two angles in a triangle are 25 deg and 65 deg. Find the third angle and classify the triangle by angles.
23. Two angles are 88 deg and 2 deg. Find the third angle and classify the triangle by angles.
24. Two angles are 100 deg and 20 deg. Find the third angle and classify the triangle by angles.
25. Two angles are 30 deg and 30 deg. Find the third angle and classify the triangle by angles.
26. A triangle has side lengths 5 cm, 5 cm, and 8 cm and one angle is 100 deg. Is that possible? If it is, classify the triangle by sides and by angles.
27. A triangle is isosceles with two equal sides of 9 cm. The angle between the equal sides is 40 deg. Classify the triangle by angles.
28. A triangle has side lengths 4 cm, 5 cm, and 6 cm. Without measuring angles, classify by sides and say which angle type it most likely is (acute, right, or obtuse) based on the side lengths.
29. A triangle has angles 50 deg and 50 deg. What is the third angle? Classify by sides if you also know its two equal angles.
30. A triangle has sides 7 cm, 10 cm, and 5 cm. Can it be a right triangle? Explain briefly and classify by sides.



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31. A triangular park has two sides of equal length. A gardener says each base angle is 55 deg. Is the park's triangle acute, right, or obtuse? What type is it by sides?
32. On a triangular road sign, one angle is 90 deg. The other two angles are equal. What are those two angles? Classify by sides and angles.
33. Maria sees a triangle with angles 40 deg, 40 deg, and 100 deg. She wants to know if it is isosceles. Explain.
34. A triangle has sides 13 cm, 14 cm, and 15 cm. Classify by sides and guess the angle type (acute/right/obtuse).
35. Sam draws a triangle with two sides equal and one angle 110 deg. What type is the triangle by sides and by angles?
36. A triangle slice of pizza looks like it has two equal sides. If its vertex angle between those equal sides is 20 deg, what are the other two angles and how is the triangle classified by angles?
37. A triangle's angles are in a right triangle: 90 deg, 30 deg, and 60 deg. Name the triangle by angles and by sides if two sides are equal.
38. A triangle has angles 72 deg, 54 deg, and 54 deg. Classify by angles and by sides.
39. The lengths 1 cm, 2 cm, and 3 cm are given. Can they form a triangle? If not, explain.
40. A triangle has side lengths 8 cm, 15 cm, and 17 cm. Classify by sides and say if it's a right triangle.
41. A triangular tent has three sides: 6 m, 6 m, and 10 m. Is it isosceles? Is it acute, right, or obtuse?
42. A triangle has angles 20 deg, 80 deg, and 80 deg. Classify by angles and by sides.
43. A triangle has sides of 4 cm, 7 cm, and 8 cm. Classify by sides and predict the angle type.
44. A triangle's angles measure 55 deg, 65 deg, and 60 deg. Classify by angles. If two sides were equal, what additional classification would apply?
45. A triangle is scalene and has one right angle. Give an example of integer angle measures that match this description. Then classify by angles.
46. A triangle has one angle of 140 deg. The other two angles are equal. Find those two angles and classify by sides and angles.
47. A triangle has sides 9 cm, 9 cm, and 9 cm. What are its angle measures and classifications?
48. A triangle's angles are 42 deg, 48 deg, and 90 deg. Is this possible? If so, classify the triangle by angles and by sides if all sides are different.
49. A triangular picture frame has two angles of 35 deg and 55 deg. Find the third angle and classify by angles.
50. A triangle has sides 14 cm, 14 cm, and 20 cm. Find its classification by sides and decide whether it is acute, right, or obtuse (explain briefly).