

Luna's Space Adventure

Grade 5 · Sorting triangles · 5.MG.3

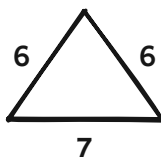
Name _____

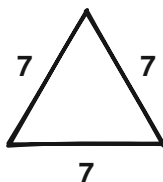
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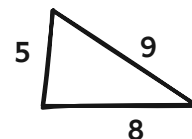


Astronaut Luna is exploring a far-off corner of space. Solve each problem to help Luna's mission go smoothly!

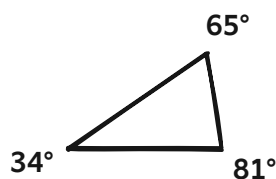
Name it by its sides Equilateral, isosceles or scalene? Lengths are in cm.

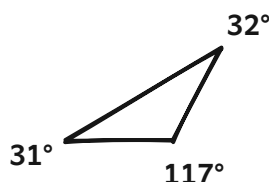


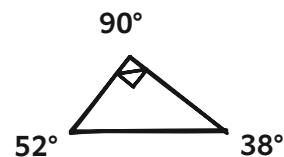




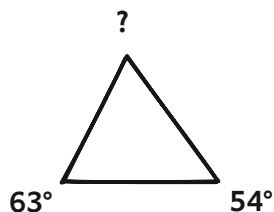
Name it by its angles Acute, right or obtuse?



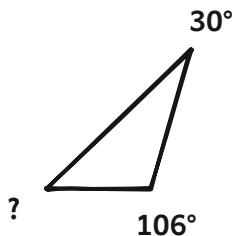




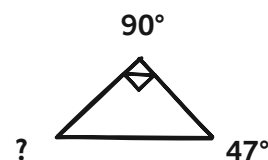
The missing angle The three angles of a triangle add up to 180°.



? = °



? = °



? = °

True or false? Think of a triangle that would prove it wrong.

An equilateral triangle is also isosceles.

True False

A triangle can have two right angles.

True False



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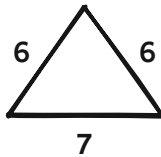
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ANSWER KEY

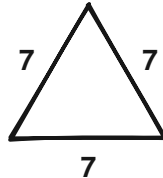


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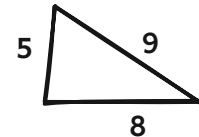
Name it by its sides Equilateral, isosceles or scalene? Lengths are in cm.



isosceles

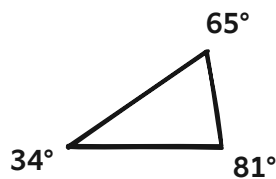


equilateral

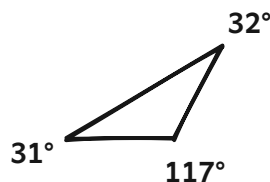


scalene

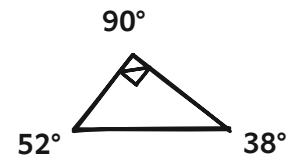
Name it by its angles Acute, right or obtuse?



acute

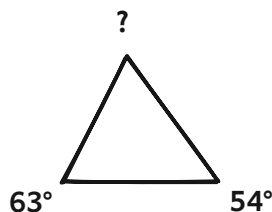


obtuse

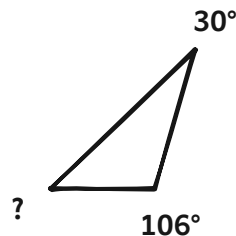


right

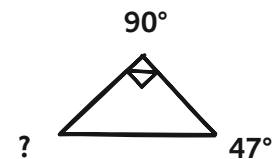
The missing angle The three angles of a triangle add up to 180°.



$$? = \boxed{63}^\circ$$



$$? = \boxed{44}^\circ$$



$$? = \boxed{43}^\circ$$

True or false? Think of a triangle that would prove it wrong.

An equilateral triangle is also isosceles.

True False

A triangle can have two right angles.

True **False**



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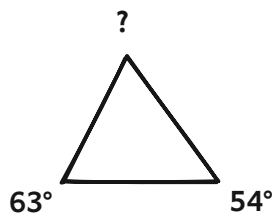
GUIDE

1 What this sheet practises

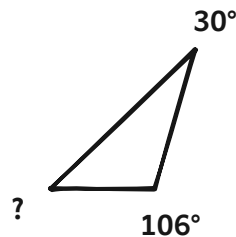
Naming triangles by their sides (equilateral, isosceles, scalene) and by their angles (acute, right, obtuse), and finding a missing angle, since the three add up to 180° .

2 A problem from the sheet, worked out

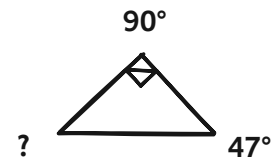
The missing angle The three angles of a triangle add up to 180° .



$$? = \boxed{63}^\circ$$



$$? = \boxed{44}^\circ$$



$$? = \boxed{43}^\circ$$

How: For sides, count how many are the same length. For angles, look for the biggest: 90° is right, more is obtuse, all under 90° is acute. A missing angle is 180° minus the other two.

3 Words to know

isosceles two sides the same length

scalene no sides the same length

obtuse angle more than 90°

acute angle less than 90°

4 Watch for

- Calling a triangle acute because it has one acute angle (all three must be).
- Subtracting only one angle from 180° .
- Judging the sides by how the triangle is turned, not by the lengths.

5 Where it fits

BEFORE

4.G.A.2

Sort shapes by their parallel or perpendicular sides and their angles.

THIS SHEET

5.MG.3

Sort angles and triangles, measure angles, and use the 180° triangle sum to find a missing angle.

NEXT

5.G.B.4

Sort two-dimensional shapes into a family tree.

6 Helping at home

Fold a paper corner to make a right angle, then hunt for triangles at home and test their corners with it.

