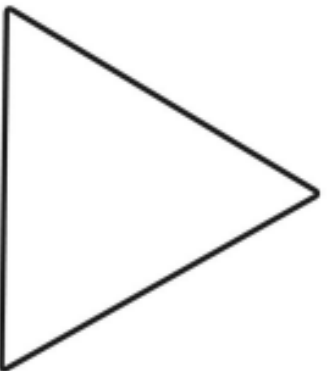


Properties of 2D Shapes

Write down the properties of the shapes.



What are the properties of a triangle?



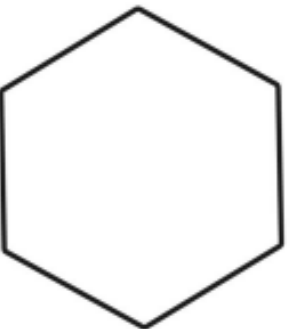
What are the properties of a rectangle?



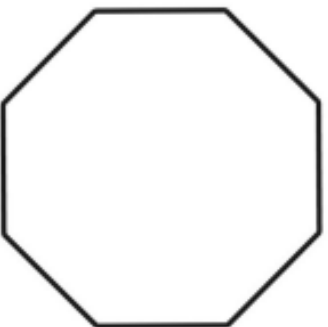
What are the properties of a square?

Properties of 2D Shapes

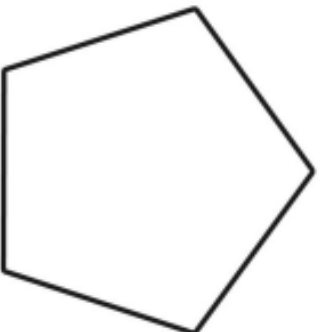
Write down the properties of the shapes.



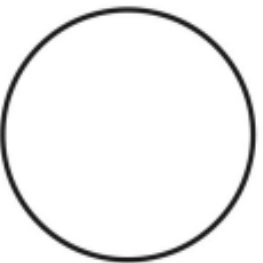
What are the properties of a hexagon?



What are the properties of an octagon?



What are the properties of a pentagon?

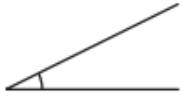


What are the properties of a circle?

Angles

What does an angle measure?

1. An angle measures _____.
2. How many right angles can you find in this picture?



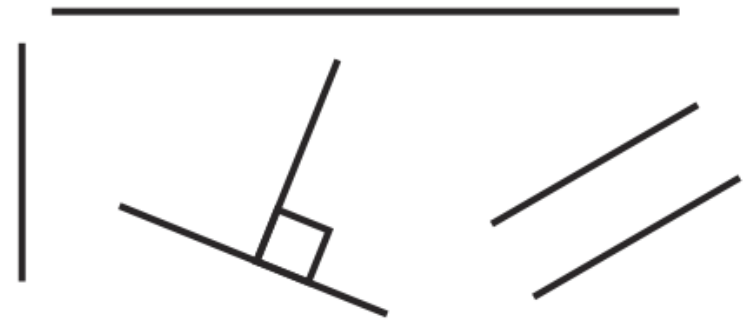
3. How many right angles make a straight line?



Lines

Identify horizontal and vertical lines and pairs of perpendicular and parallel lines.

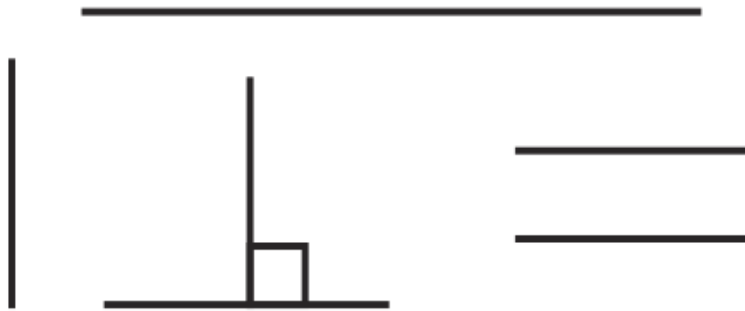
Label the following lines correctly:



Lines

Identify horizontal and vertical lines and pairs of perpendicular and parallel lines.

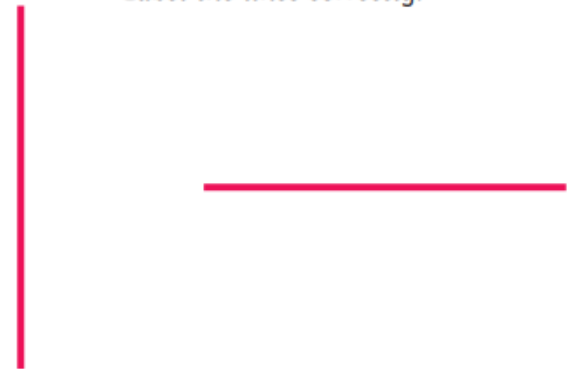
Label the following lines correctly:



Lines

Identify horizontal and vertical lines.

Label the lines correctly:



Year 4 Geometry Reasoning

Ethan says, "A square and a rectangle both have 4 lines of symmetry because they both have 4 straight sides and 4 equal angles."

Cheng replies, "That's not true. A rectangle only has 2 lines of symmetry."

Who is correct? How do you know?



Year 4 Geometry Reasoning

Any angle that the minute hand makes from 2 o'clock until 35 minutes past 2 is an acute angle. Is this correct? Explain your answer.



Year 4 Geometry Reasoning

This BMX rider claims that to do a 360 degree turn in the air, he needs to make 2 quarter turns and 1 right angle turn clockwise. Is he correct? Explain your answer.



Year 4 Geometry Reasoning

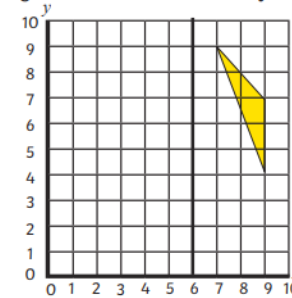
Suzie says, "All shapes that have a right angle have at least 1 line of symmetry." Is this correct? How do you know?



Planets

Year 4 Geometry Reasoning

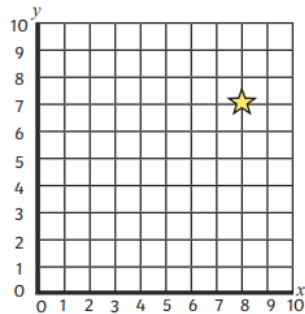
Cherry tells her teacher, "To make this figure symmetrical, you need to use the coordinates (3, 4) (3, 7) and (9, 5)". Explain whether you think this is true or false and why.



Year 4 Geometry Reasoning

Vicky says, "The coordinates of the star here are (7, 8)."

Mariam replies, "No. The star is at coordinate (8, 7)."
Who's correct? How do you know?



Year 4 Geometry Reasoning

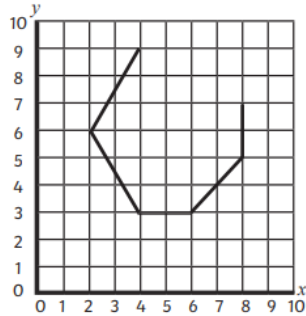
1. Quadrilaterals have less than 5 sides.
2. Triangles have symmetry.
3. An irregular polygon has the same number of lines of symmetry as it does sides.

Say whether these statements are always, sometimes or never true and explain your answer.

Asteroids

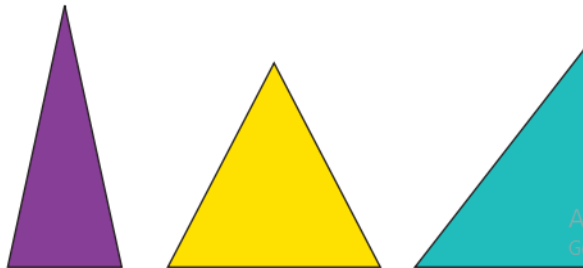
Year 4 Geometry Reasoning

To create a heptagon, you need to use 3 more coordinates. Is this true or false? Explain your answer.



Year 4 Geometry Reasoning

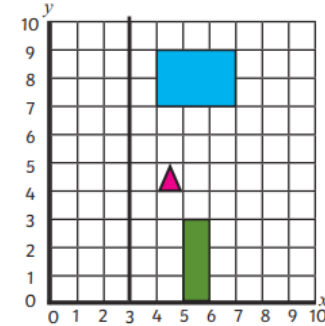
Only 2 of these triangles have lines of symmetry and altogether there are 4 lines of symmetry. Is this true or false? Explain your answer.



Activat
Go to 3e

Year 4 Geometry Reasoning

All of these shapes can be reflected using the given mirror line. Is this true or false? Why?



Year 4 Geometry Reasoning

Leo says, "The number of sides on a regular polygon equals the number of lines of symmetry it has."

Is this correct? How do you know?