

Mathematics

Recognising lines of symmetry within 2-D shapes

Miss Mitchell



OAK
NATIONAL
ACADEMY

Lesson agenda

Lines of symmetry



Talk task



Independent task

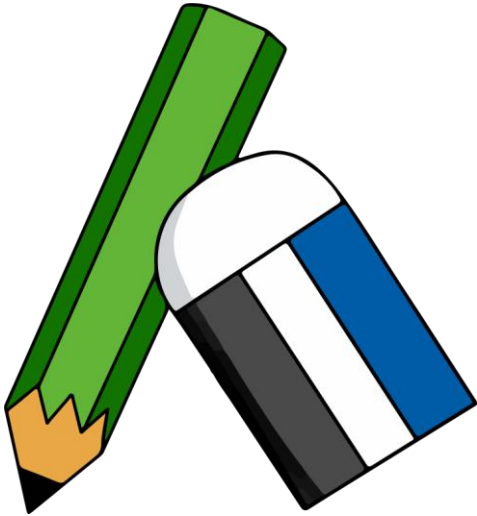


Quiz



You will need...

Pencil



Paper



Scissors

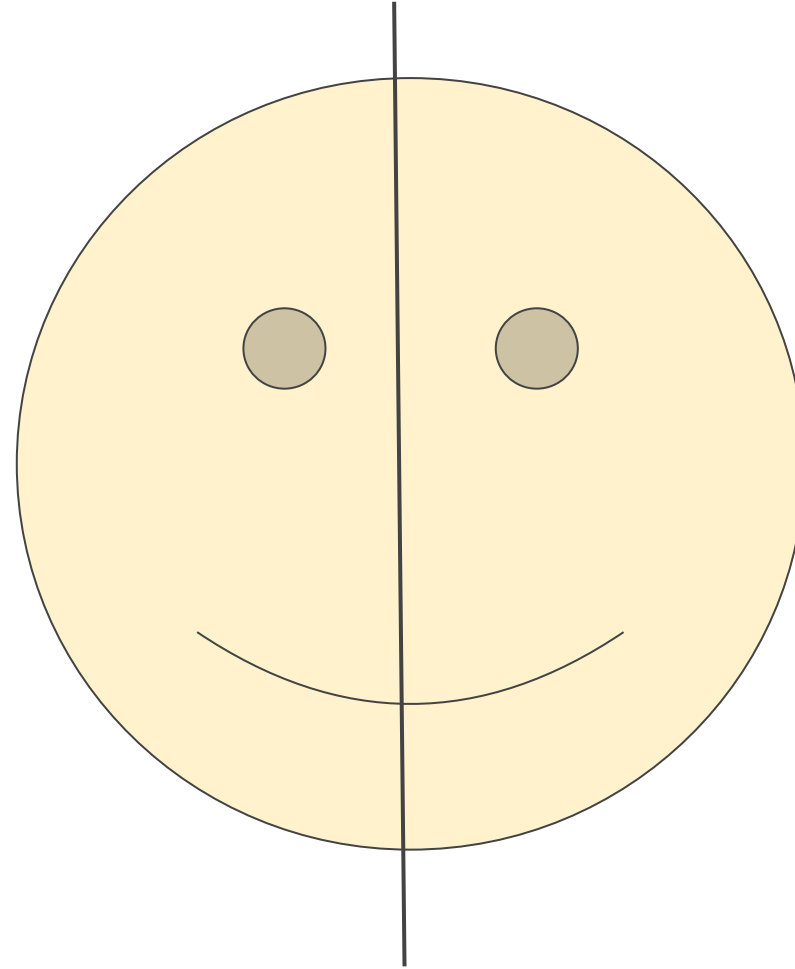


What is symmetry?

- Something is symmetrical when it is **identical** on both sides
- A shape or pattern has symmetry if a mirror line can be drawn on it to show that both sides are exactly the same!



Is there a line of symmetry? How could we check?



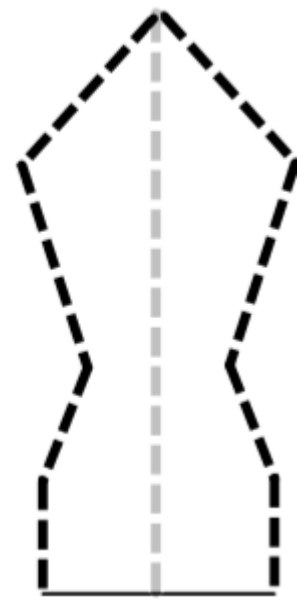
Talk task



1. Fold a piece of paper



2. Cut out a shape (without cutting across the fold).

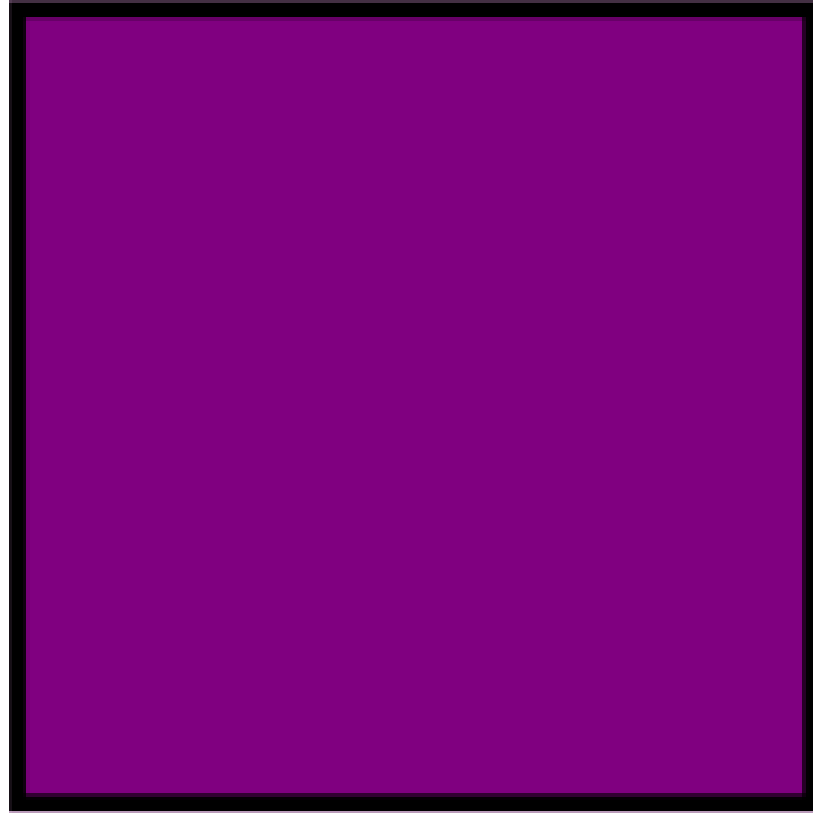


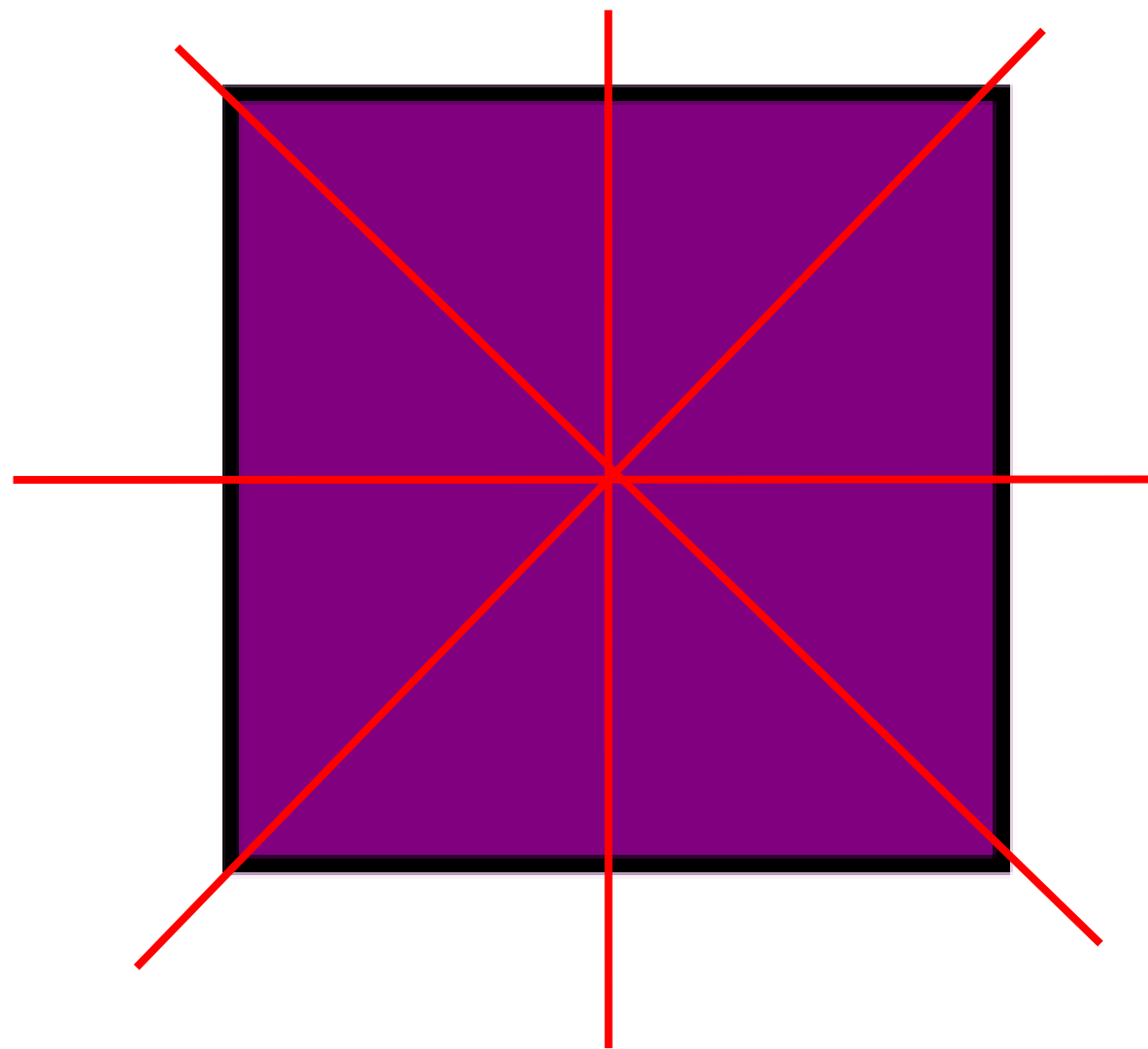
3. Open the shape so that you can see the line of symmetry.



Where are the
lines of
symmetry?

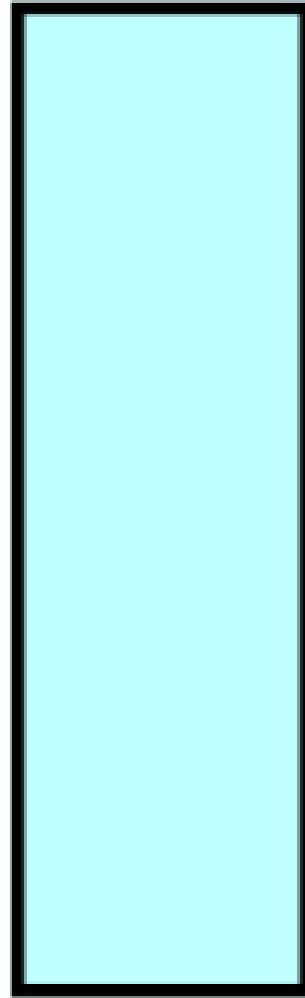
How many are
there?

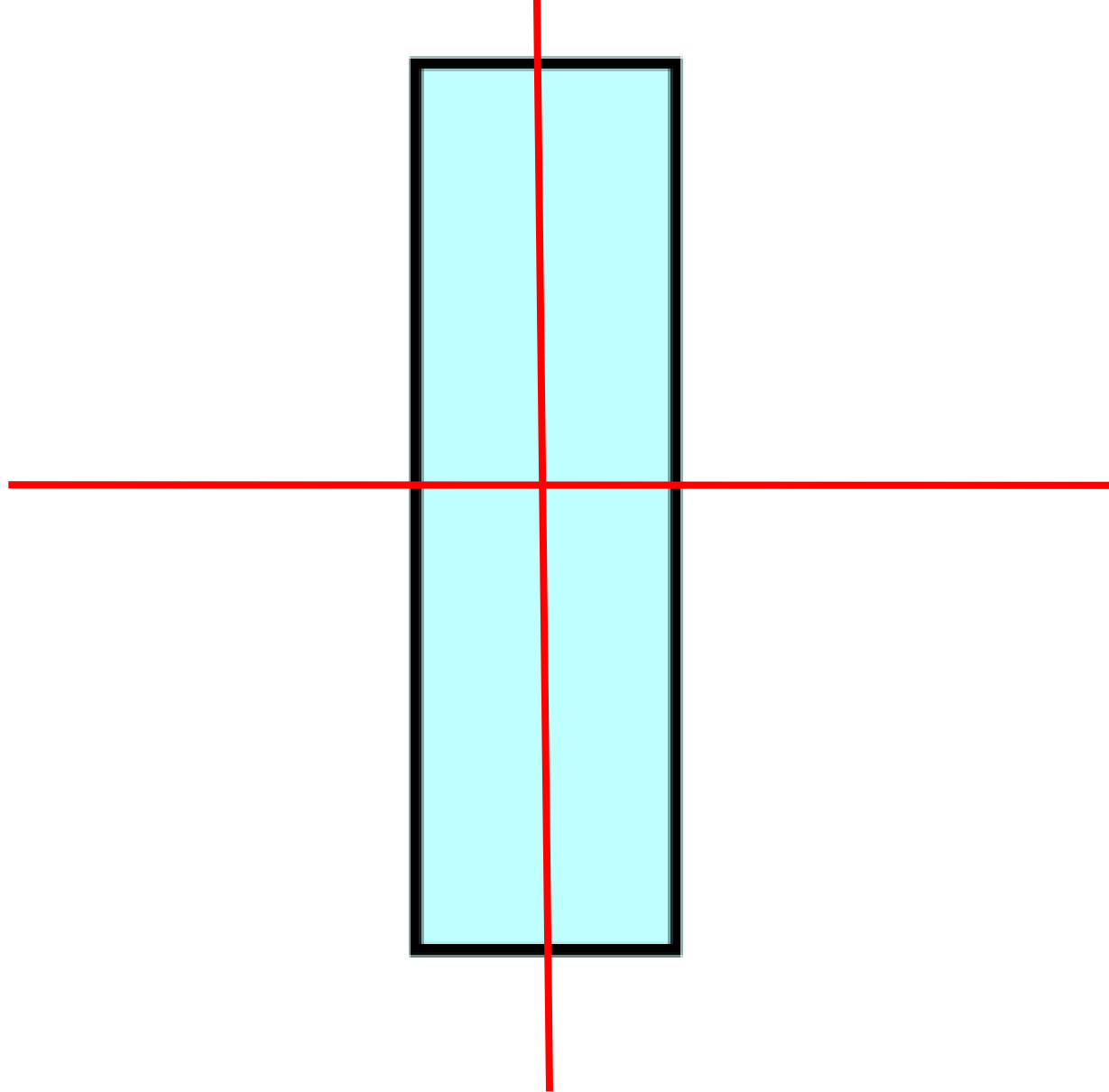




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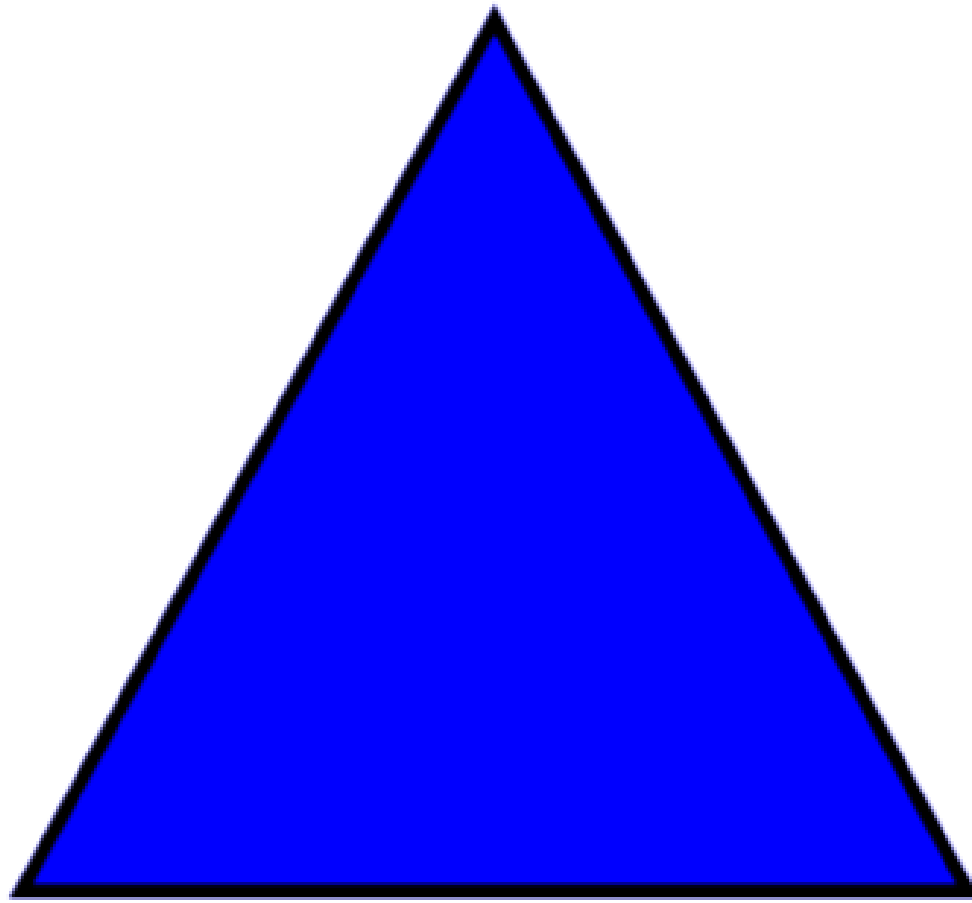
How many are there?

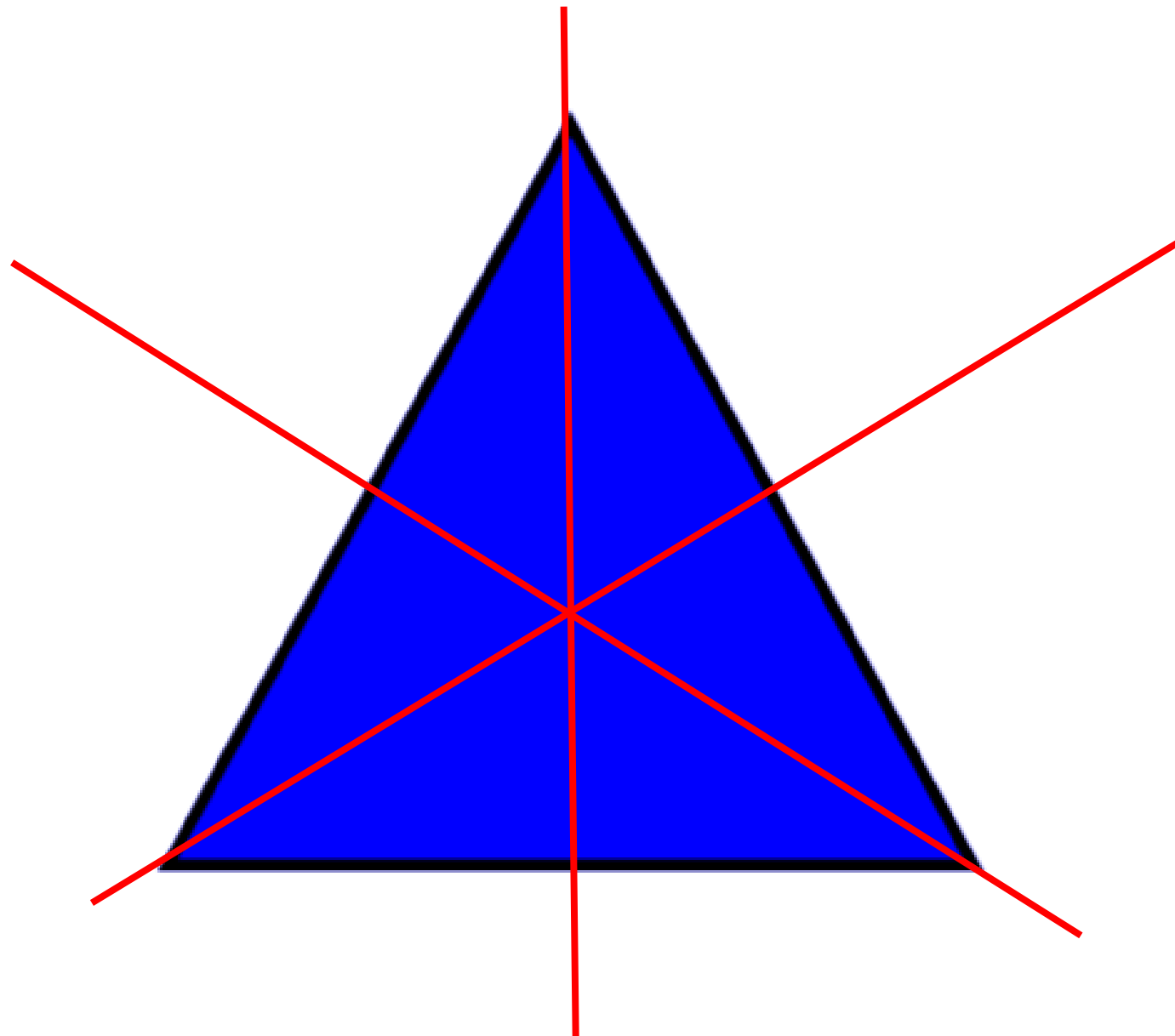




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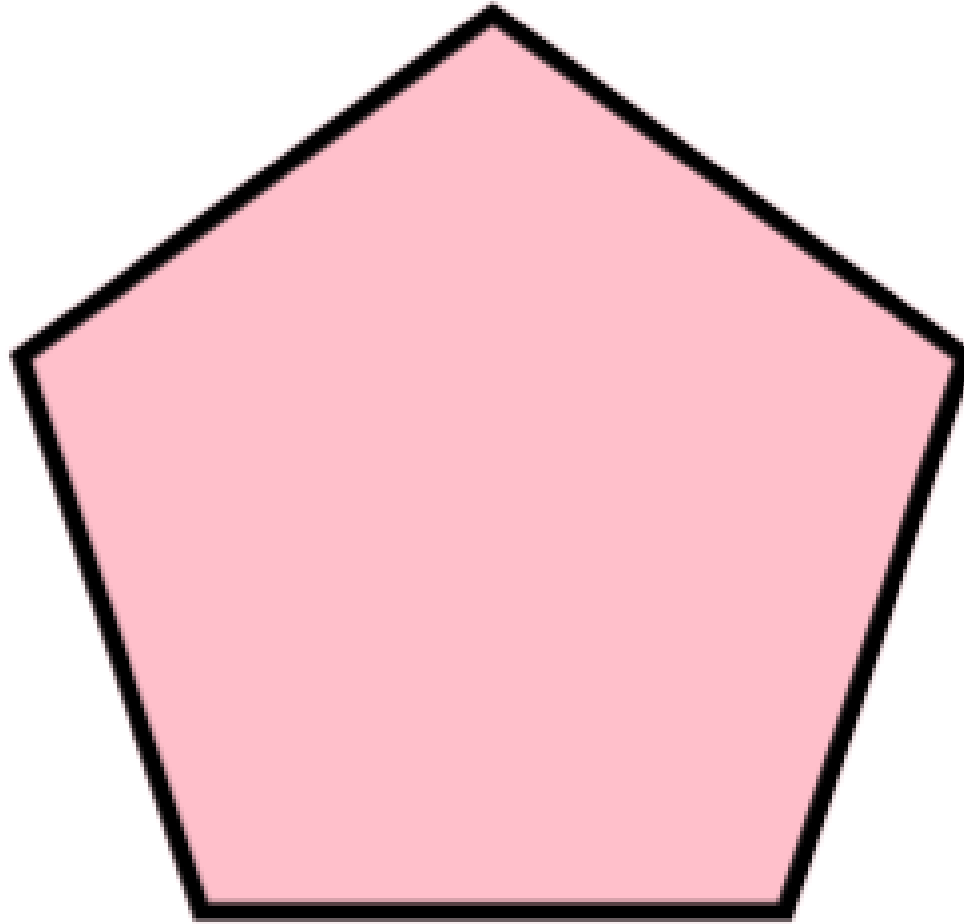
How many are
there?

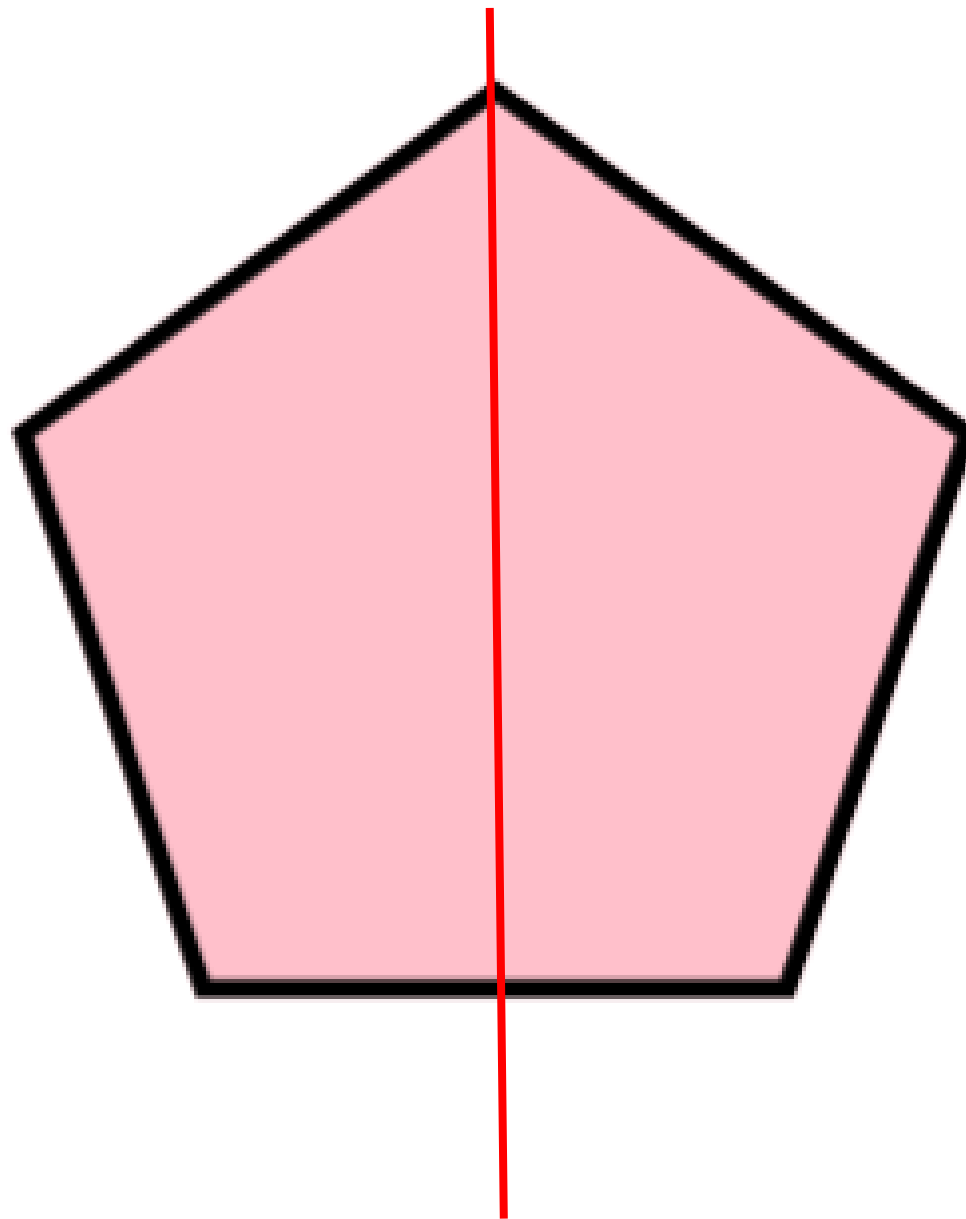




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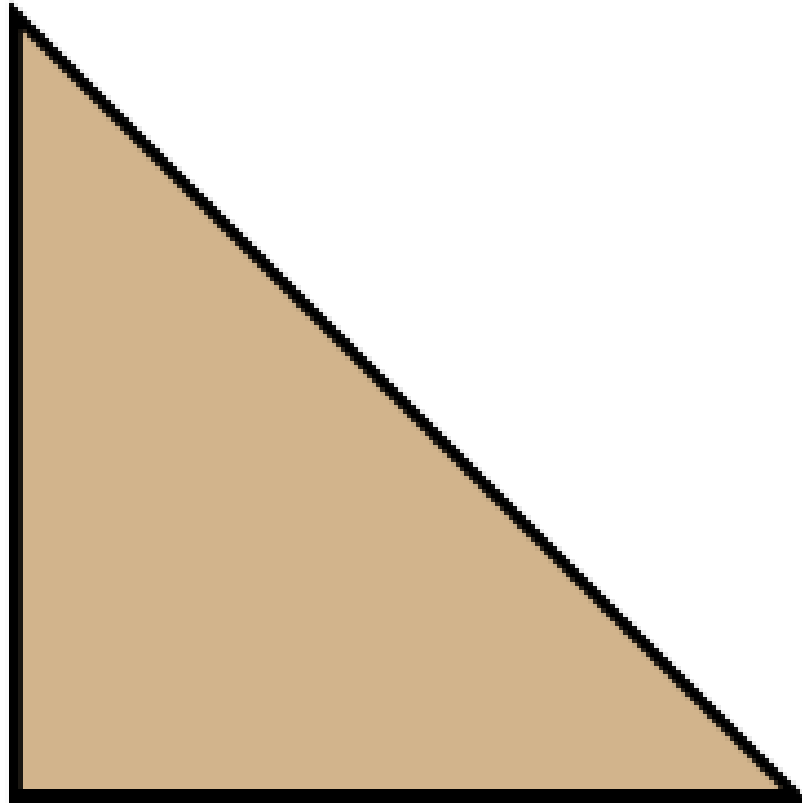
How many are
there?

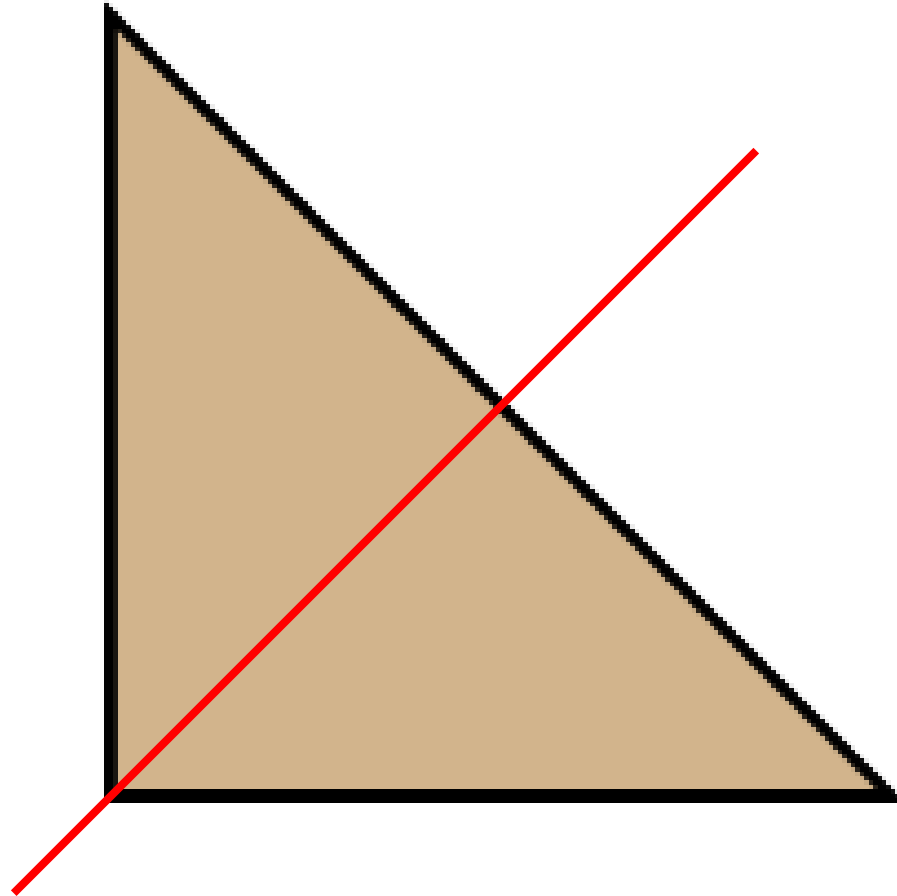




Where are the
lines of
symmetry?

How many are
there?





Independent task

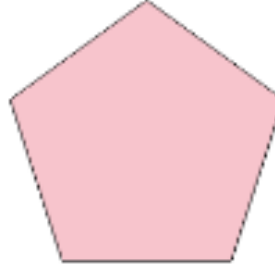
1.



3.



5.



2.



4.



For each shape can you tell me:

- What it is called
- How many sides it has
- How many vertices it has
- How many lines of symmetry



Pause to complete your task



Carry on once you're finished



Answers

Number	Name	Sides	Vertices	Lines of symmetry
1	Square	4	4	4
2	Rectangle	4	4	2
3	Right angle triangle	3	3	1
4	Equilateral triangle	3	3	3
5	Pentagon	5	5	1

