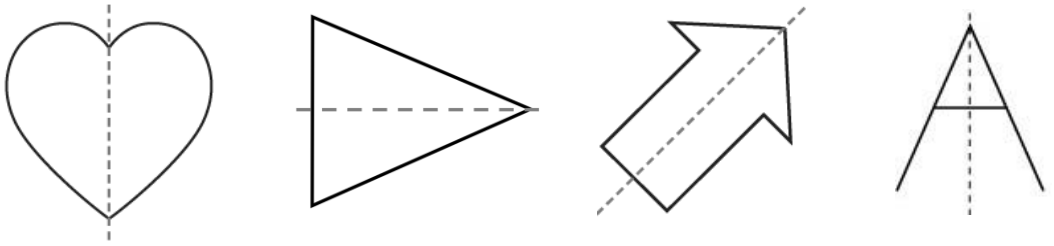
Name: _____ Symmetry

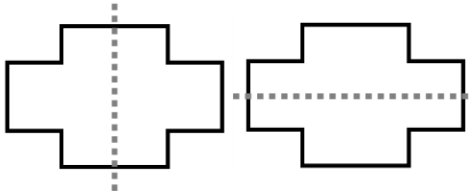
Symmetry is when a shape looks identical to (exactly like) its original shape after it's been flipped, slid, or turned.

The simplest kind of symmetry is *line symmetry,* also called *reflection symmetry*. An image (or object) has line symmetry if there is a line that divides it in half so that each half is the mirror image (reflection) of the other half. The line is called a *line of symmetry*. If you fold the image along the line of symmetry the two halves of the image would meet up exactly.

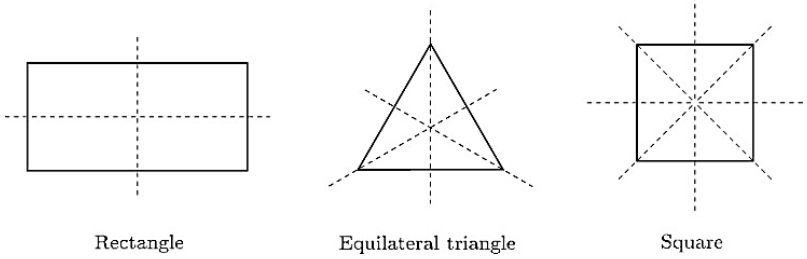
Each of these images has line symmetry about the broken-line:



An image can have more than one line of symmetry. This cross shape has two different lines of symmetry.

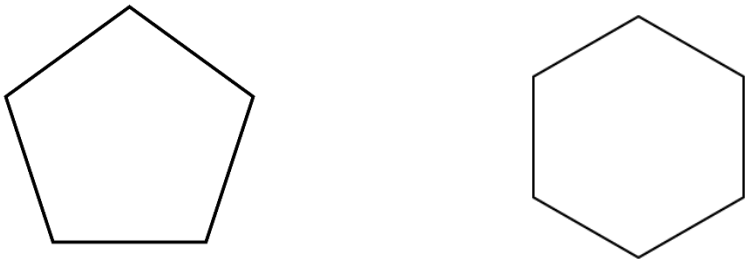


Look at the shapes below. How many different lines of symmetry does each shape have?



Rectangle Equilateral triangle Square

1. How many different lines of symmetry can you draw for each of these regular polygons? (A *regular polygon* has equal sides and equal angles.)



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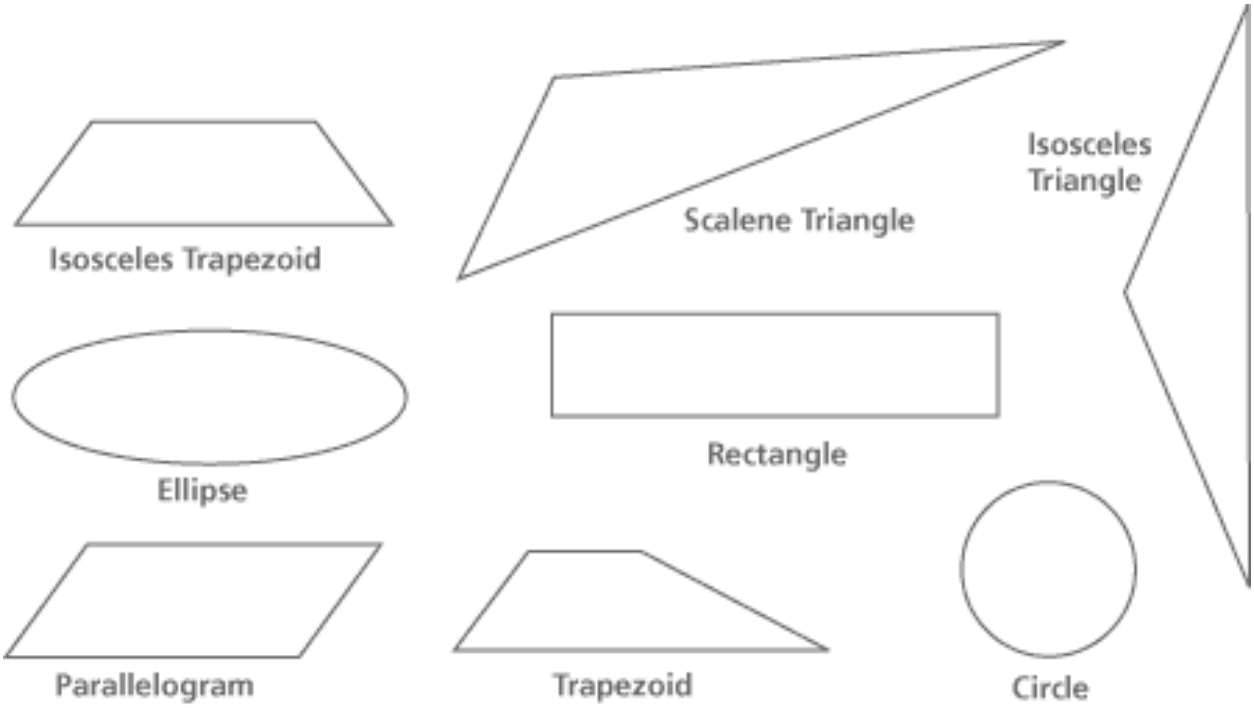
2. How many lines of symmetry do each of the following figures have?



3. How many lines of symmetry do each of these letters have?

H X

M Z