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1 This bird likes to eat fish. What is the name of this bird?																		
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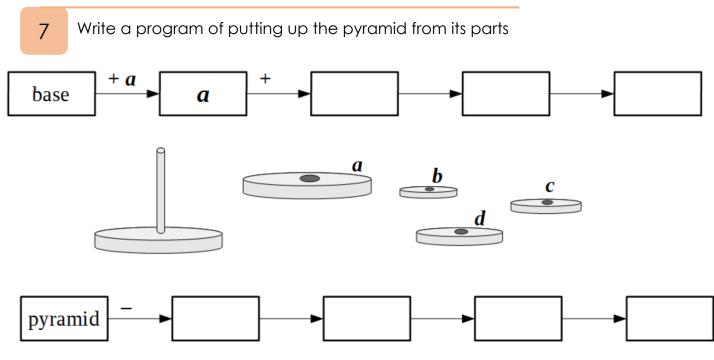
3 Little Joe picked 6 apples from the apple tree. Foxy Tail picked 9 apples from the apple tree. Which questions can you ask for this problem? How many apples did \_\_\_\_\_ How many more apples did \_\_\_\_\_ Little Joe picked 12 green apples and 7 red ones. Foxy Tail picked 6 green apples 4 and 4 more red apples than green. LJ Z G R 12 How many apples did Little Joe and ? Foxy Tail pick altogether? 6 6 + 4FT \ G R What else could you ask? How many apples did \_\_\_\_\_ How many apples did \_\_\_\_\_ How many more \_\_\_\_\_ How many more \_\_\_\_\_ How many more \_\_\_\_\_ How many more \_\_\_\_\_ 5 Draw the face of a cube that you will not see if you turn the cube a) to the right b) backward c) forward

## **Algorithms and Programs**

6 Write the order of operations in the expressions below.

12-4+712-(4+7)(12-4)+719-3+7-419-(3+7)-419-3+(7-4)

By determining the order of operation, we are making a program or algorithm for evaluating the expression.



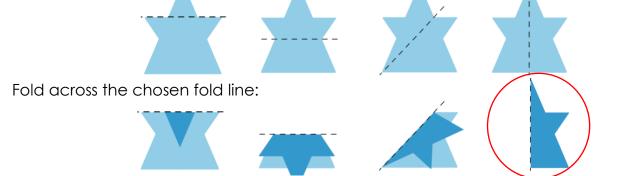
Many things could be made into algorithms, for example, recipes or trips. An algorithm is a list. It lists the steps you need to take to carry out a plan. It has to be in the correct order.

Make a "Get Ready for School" algorithm. 8 Which steps of the algorithm could be Eat breakfast switched? 1 Wake up \_\_\_ Get dressed Which steps could not be switched? \_\_\_\_ Brush hair Brush teeth What steps can be removed? \_\_\_\_\_ \_\_\_\_ Prepare backpack \_\_\_\_ Make bed What other steps can be added? \_\_\_\_ Do morning exercises Say "Goodbye" Go to the school bus stop

## Symmetry. Line of symmetry. Reflection symmetry.

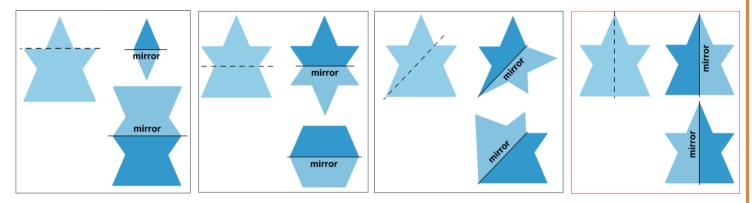
The simplest symmetry is Reflection Symmetry (sometimes called *Line Symmetry* or *Mirror Symmetry*). It is easy to see, because one half is a reflection of the other half.

What happens when you fold this shape? Choose a fold line to find out.



When you fold a shape along a line of symmetry, one half fits exactly over the other.

If you put a mirror on this shape and looked at it from each side, what would you see? Choose a mirror line to find out.



When you put a mirror on a line of symmetry and look from either side, the shape looks like the original. So, this shape is **symmetrical**. It has **reflection symmetry**. It has **one** line of symmetry.

9 Some shapes have several lines of symmetry. How many lines of symmetry does each shape have?

