LESSON 3·8   Frames-and-Arrows Diagrams
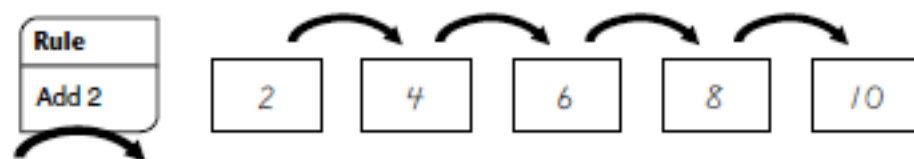
Family Note

Your child is bringing home an activity you may not be familiar with. It is called "Frames and Arrows."
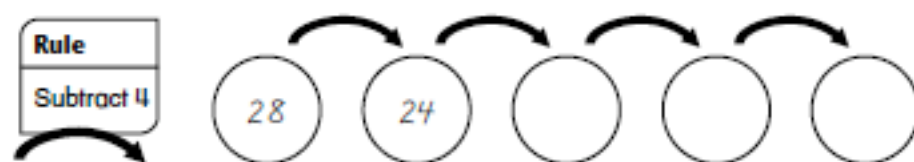
Frames-and-Arrows diagrams are used with sequences of numbers that follow one after the other according to a special rule. Frames-and-Arrows diagrams are made up of shapes, called **frames,** that are connected by **arrows.** Each frame contains one of the numbers in the sequence. Each arrow stands for the rule that tells how to find which number goes in the next frame. Here is an example of a Frames-and-Arrows diagram:

Rule
Add 2

2   4   6   8   10
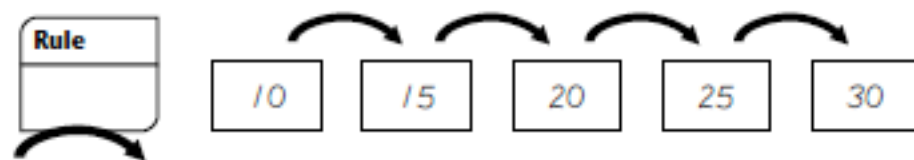
The arrow rule is "Add 2" or "Count by 2s."

In the two examples below, some of the information is left out. To solve the problem, you have to find the missing information.

Example 1: Fill in the empty frames according to the arrow rule.

Rule
Subtract 4

28   24   ◯   ◯   ◯

   Solution: Write 20, 16, and 12 in the frames that follow 24.

Example 2: Write the arrow rule in the empty box.

Rule

10   15   20   25   30

   Solution: The arrow rule is "Add 5" or "Count by 5s."

Your child has been solving problems like the one in Example 1—problems in which the arrow rule is given and some of the numbers in the frames are missing. In the next lesson, we will start doing problems like Example 2, in which the numbers in the frames are given and the arrow rule is missing.