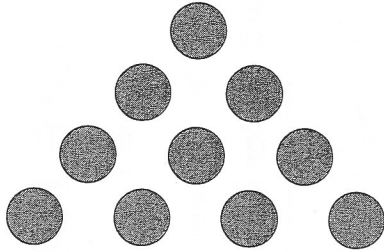


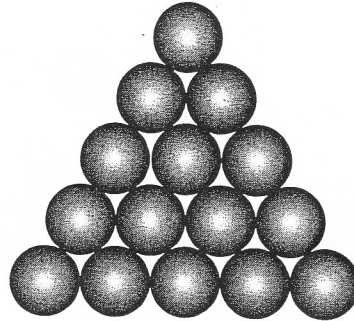
2.7 Triangular numbers

Have you ever been ten-pin bowling or played pool?

The 10 pins are arranged in a triangular pattern.



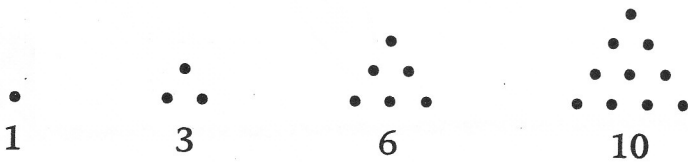
The 15 pool balls start in a triangular pattern.



Numbers like 10 and 15 are called **triangular numbers**.

They can be represented by a pattern of dots in the shape of a triangle.

Here are the first four numbers in this pattern.



1 What is the next triangular number? _____

2 Draw the next diagram in the pattern above.

3 Compare these number sentences with the dot diagrams.

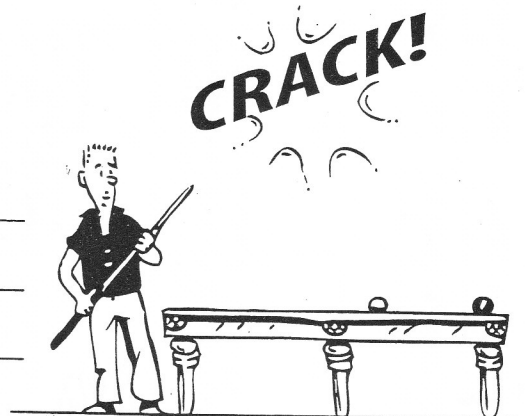
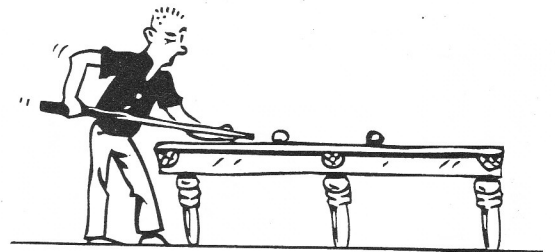
Complete three more lines of this pattern.

$$1 = 1$$

$$1 + 2 = 3$$

$$1 + 2 + 3 = 6$$

$$1 + 2 + 3 + 4 = 10$$



4 Write the first ten triangular numbers.

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