



Problem of the Week Grade 7 and 8

A Crafty Little Problem

A knot is tied near one end of a piece of string and beads are strung to form a necklace. The beads are placed on the string in the following sequence: 1 red, 1 green, 1 blue, 2 red, 2 green, 2 blue, 3 red, 3 green, 3 blue, with the number of each colour increasing by one every time a new group of beads is placed. The diagram illustrates how the first 18 beads are strung.

How many of the first 160 beads are blue?

