Limo Limits – Solution

Solution 1:

20 children weigh the same as 15 adults.
Dividing each of these by five gives 4 children weigh the same as 3 adults.
The table below lists equivalent weights of children and adults based on this ratio.

Children	Adults
20	15
16	12
12	9
8	6
4	3

Since there are already 12 children in the limousine, 8 more children could fit in. Since 8 children weigh the same as 6 adults, six more adults could fit in the limousine.

Solution 2:

20 children weigh the same as 15 adults, therefore 20 children=15 adults.

To find the unit rate for 1 child, divide both sides of the equation by 20.
Therefore, 1 child = 3/4 adult.

If we have 12 children in the limo already, there is room for 8 more children. Each child weighs the same as 3/4 adult, so we have room for 8(3/4) more, or 6 adults.