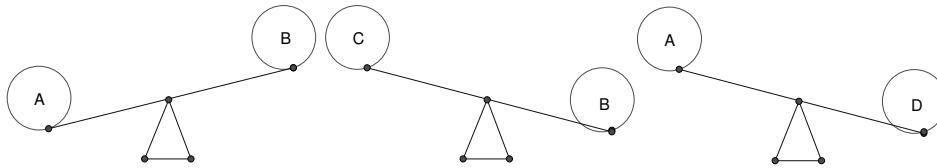


1.
2.
3.
4. From the diagram, we can deduce that A is lighter than D, B is lighter than A, and C is lighter than B. This means  is the lightest object.



5. There are  balls. The ball on ball leftmost ball is on the left of two balls, the rightmost ball is on the right of two balls, and the middle ball is between two balls.
6.
7. There are 4 trees between every 2 poles so it looks like:  
pole — 4 trees — pole  
This means that, with the exception of the very last pole, there are 4 trees to the right of every pole;  $4 \times 5 =$   poles.
8.
9. When square tables are joined end to end, 3 sides of each of the tables on the end are exposed for children to sit at and only 2 sides of each of the tables in between are exposed for children to sit at. Therefore we know that for the two end tables there are a total of 6 seats. This means that  $16 - 6 = 10$  children will be sitting in the tables in between the end tables. Since these tables will be able to seat 2 children each, we will need  $10 \div 2 = 5$  of these tables for a total of  $5 + 2 =$   tables.
10.