Combinations of marbles

This task is about possible outcomes and tree diagrams.

Tomasi had two bags. One bag had a red marble and a blue marble in it.

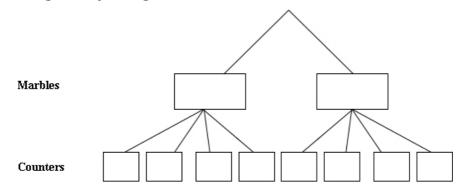
The other bag had 4 counters in it with the numbers 1, 2, 3, or 4, written on them.





Tomasi wanted to find out all the possible combinations of marbles and counters he could get if he took one marble and one counter out of each bag at the same time. He drew an outline of a tree diagram to help him.

a) Complete the tree diagram by filling in all the boxes.



b) How many possible combinations of marbles and counters are there?

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