EXERCISE 7

account for	accumulate	carry out	considerably	deposits	eventually
expend	foliage	maintenance	make up	mass	ratio

Trees and woody shrubs live a long time, which greatly influences the manner in which they distribute energy. Early in life, leaves (1) _____ more than one-half of their biomass; however, as trees age, they (2) _____ more woody growth. Trunks and stems become thicker and heavier, and the (3) _____ of leaves to woody tissue changes. (4) _____, leaves (5) _____ only 1 to 5 percent of the total (6) _____ of the tree. The production system (the leaf mass) that supplies the energy is (7) _____ less than the rest of the biomass it supports. Thus, as the woody plant grows, much of the energy goes into support and (8) _____, which increases as the plant ages.

When deciduous trees (trees that lose their (9) _____ in winter) produce leaves again in the spring, they (10) _____ up to one-third of their reserve energy on the growth and expansion of leaves. This expenditure is repaid as the leaves (11) _____ photosynthesis during the spring and summer. After leaves, trees give preference to flowers; then tissues that transport nutrients and water, new leaf buds, (12) _____ of starch in roots and bark, and finally, new flower buds.