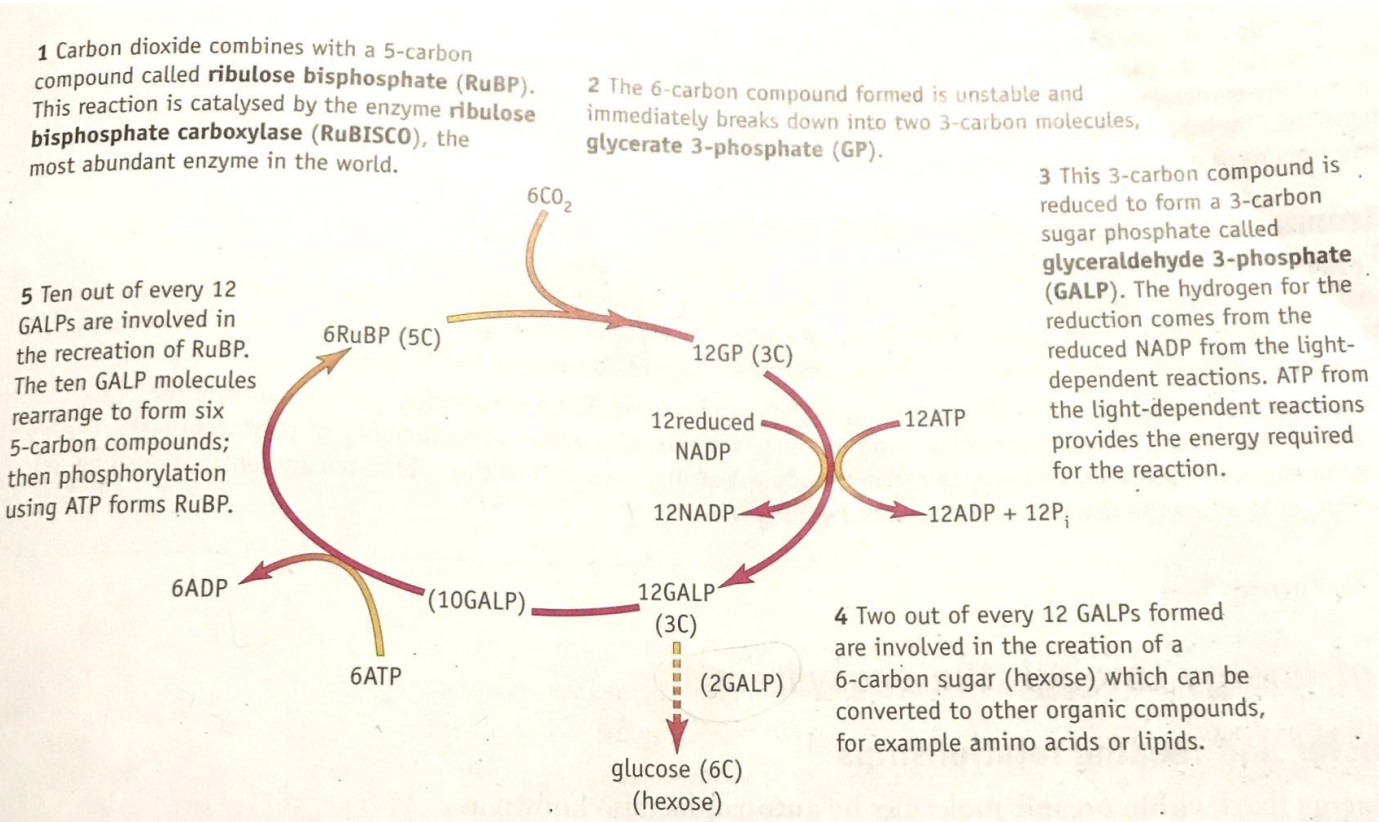

Figure 5.25 The light-independent reactions of the Calvin cycle (also known as the C3 pathway).

Figure 5.25 shows the reactions of the Calvin cycle in more detail. Read the annotations to discover exactly what is happening at each stage of the cycle. Even this is a simplification. In reality there are large numbers of intermediate reactions.

Q5.14 Look at Figure 5.25, which shows the light-independent reactions.

a Name a substance that has been phosphorylated (has had phosphate added to it).

b Name a substance formed by reduction.

c Explain why the diagram shows six RuBP molecules combining with six carbon dioxide molecules, rather than just one of each.