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Two spheroids (individuals) of the green alga *Volvox carteri*. The lower spheroid is asexual, with sixteen large reproductive cells that divide to produce a new generation, which is normally asexual also. But when heat shocked, females produce egg-bearing sexual daughters (shown above) and males produce sperm-laden sexual sons. Then eggs and sperm combine to produce heat- and desiccation-resistant zygotes. See page 51. [David L. Kirk, Washington University, St. Louis, MO 63130]