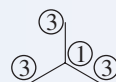
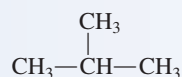


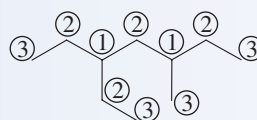
two other carbon atoms have two hydrogen atoms attached; those bonded to three other carbon atoms have only one hydrogen atom attached; and those bonded to four other carbon atoms bear no hydrogen atoms. For this alkane, each carbon atom's hydrogen content is indicated by circled numbers as follows.



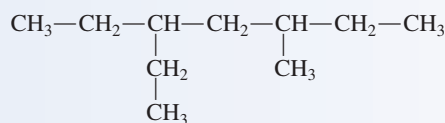
With this information on hydrogen content, the condensed structural formula is written as



b. Using the methods of part **a**, the hydrogen content of this alkane is

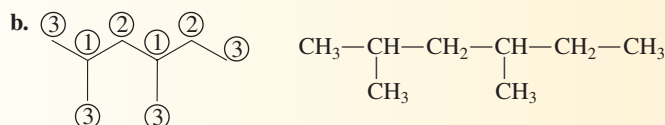
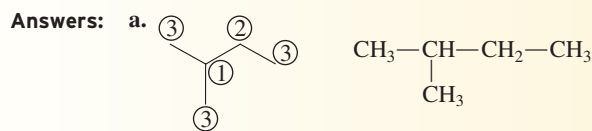
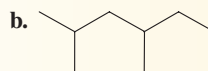
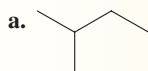


and the condensed structural formula becomes



Practice Exercise 12.5

For each of the following alkanes, determine the number of hydrogen atoms present on each carbon atom and then write the condensed structural formula for the alkane.



The Chemistry at a Glance feature on page 338 contrasts the line-angle structural formula notation for alkanes with all other structural formula notations for alkanes encountered so far in this chapter.