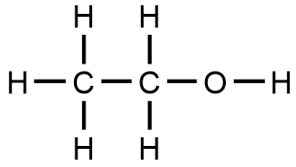
CONCEPT: SKELETAL FORMULA

● This representation (aka _____ or _____ formula) is the fastest way of drawing complex organic structures.

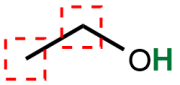
Three Ways of Drawing Organic Molecules



Structural Formula

CH_3CH_2OH

Condensed Formula



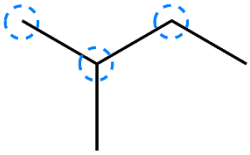
Skeletal Formula

● C–C bonds are shown as _____ where every corner represents a _____ atom (w/ enough H atoms).

□ C and H atoms are *not* shown but other atoms, such as ____, ____, and ____, are shown.

□ **Exception**: ____ atoms, attached to atoms other than _____, are shown.

EXAMPLE: Determine the number of hydrogen atoms attached to each of the circled carbon atoms.



PRACTICE: Draw a skeletal formula for the following molecule: $CH_3CH(CH_3)CH_2CH_2OH$

PRACTICE: Convert the following skeletal formula into condensed and structural formulas.