

## Homework 3.1

1. What is an element?

..... 1

2. What is a molecule?

..... 1

3. What is a compound?

..... 1

4. Use the word bank to complete the sentences.

|       |        |           |      |
|-------|--------|-----------|------|
| atoms | strong | molecules | weak |
|-------|--------|-----------|------|

Every element is made up of very small particles called ..... 1

Some substances are made up of ..... 1

These are made up of two or more ..... joined together by ..... bonds . 2

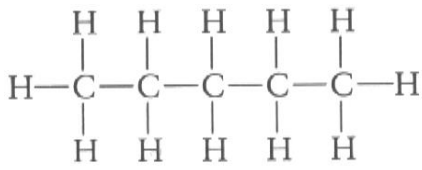
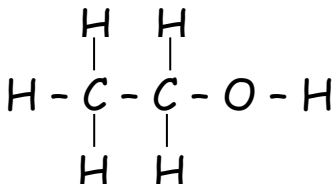
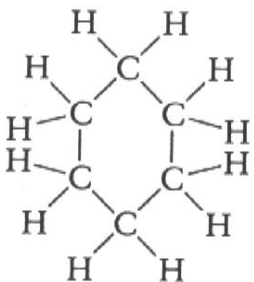
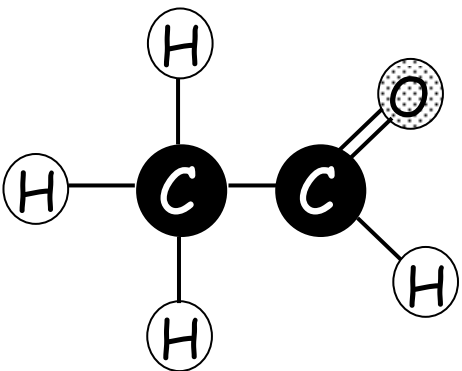
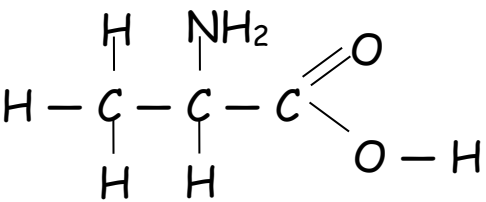
Bonds between molecules are ..... 1

5. Complete the following table

| Formula  | Number of each atom in molecule           |
|----------|---|
| $N_2H_4$ | 2 atoms of Nitrogen + 4 atoms of hydrogen |
| $CO_2$   | a) .....                                  |
| b) ..... | 1 atom of nitrogen + 3 atoms of hydrogen  |

2

6. Work out the formula of the following compounds.

|   |  |   |
|---|--|---|
|  |   |  |
| a) .....  | b) .....   | c) .....  |
|  |  |   |
| d) .....  | e) .....   |   |

5

total

15