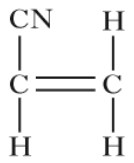
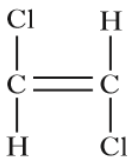
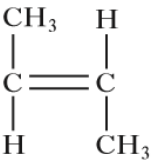
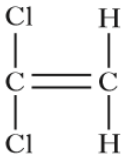
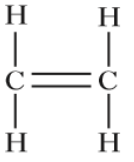
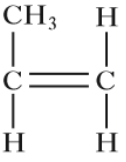
1.

A	B	C
		
D	E	F
		

Identify the **two** isomers.

2 MARKS

A	B	C
D	E	F

B and D

2.

The table gives information about some alkanes.

Name	Density g/cm^3
pentane	0·626
hexane	0·659
heptane	0·684
octane	0·703

Predict the density of the alkane with **nine** carbon atoms.

0.722 g/cm^3 **1**

3.

A student investigated the reaction of some fuels with oxygen.

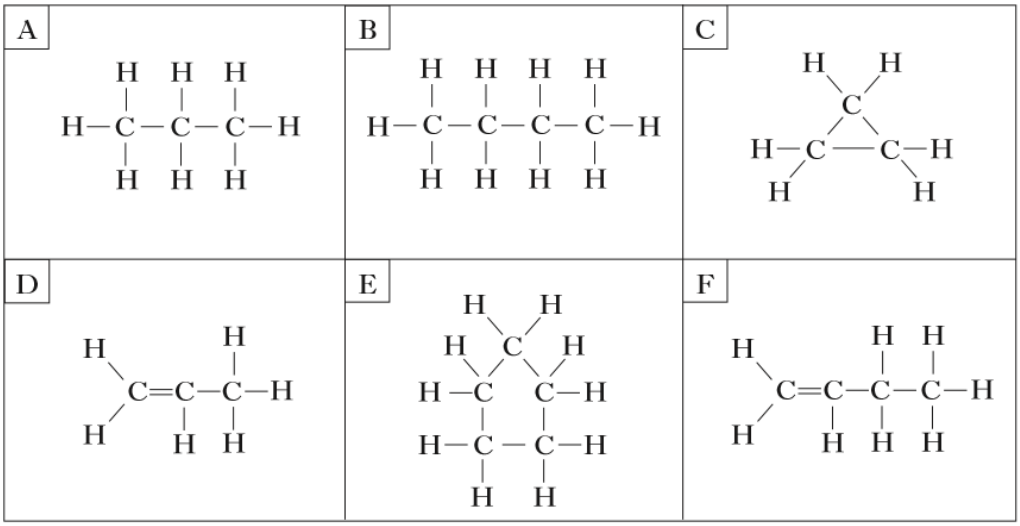
The results are shown.

Fuel	Products
A	carbon dioxide
B	water
C	nitrogen, water
D	carbon dioxide, water

Name the **elements** which **must** be present in fuel **D**.

Hydrogen and carbon

4. The grid shows the structural formulae of some hydrocarbons.



(*a*) Identify the hydrocarbon which reacts with hydrogen to form butane.

A	B	C
D	E	F

F

1

(*b*) Identify the **two** isomers.

A	B	C
D	E	F

C and D

1

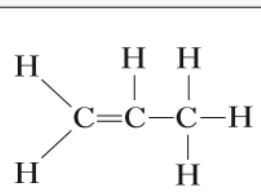
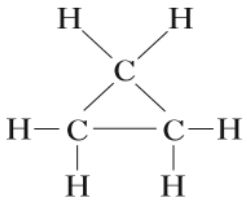
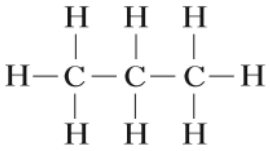
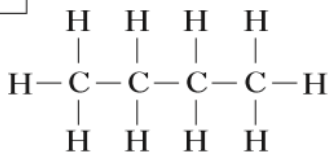
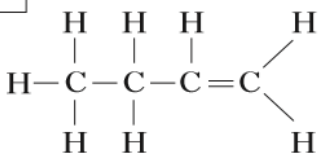
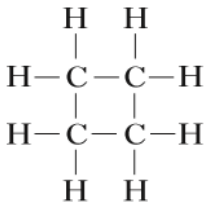
(*c*) Identify the structural formula which represents propene.

A	B	C
D	E	F

D

1

5. The structures of some hydrocarbons are shown in the grid.

A 	B 	C 
D 	E 	F 

(*a*) Identify the **two** hydrocarbons with the general formula C_nH_{2n}, which do **not** react quickly with bromine solution.

A	B	C
D	E	F

B and F

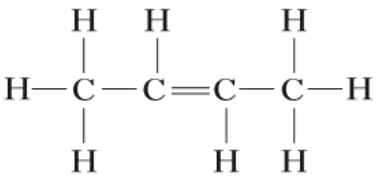
1

(*b*) Identify the hydrocarbon which is the first member of a homologous series.

A	B	C
D	E	F

B

1

(*c*) Identify the **two** isomers of 

A	B	C
D	E	F

E and F

1