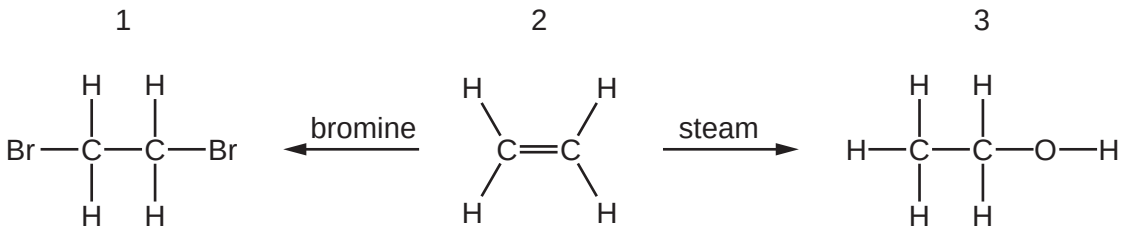
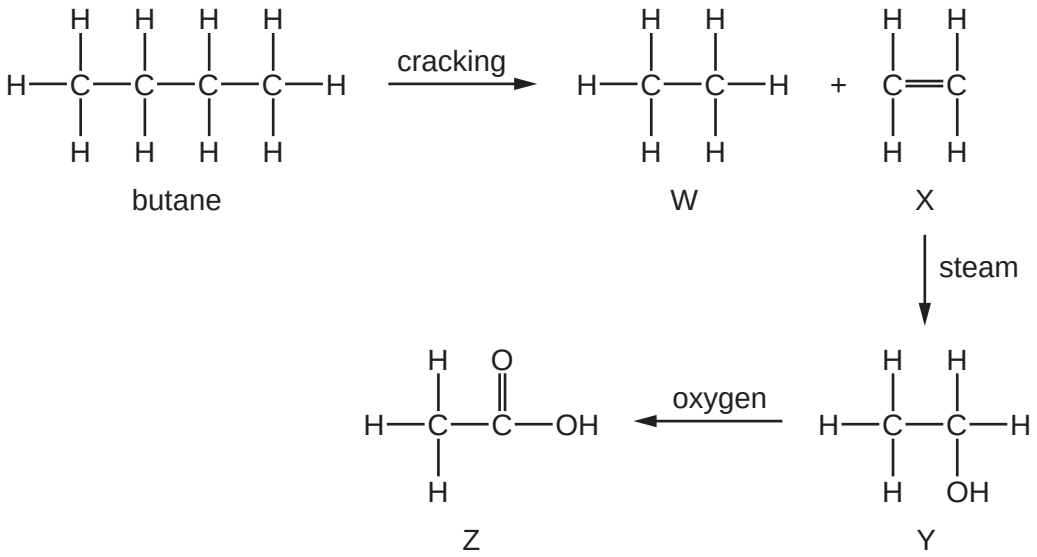
1 The diagram shows the structure of a simple hydrocarbon and the products of two of its reactions.



Which structures are named correctly?

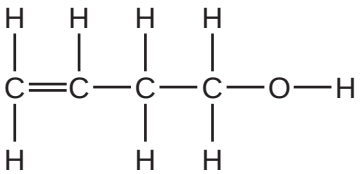
	structure		
	1	2	3
A	✓	✓	✗
B	✓	✗	✓
C	✗	✓	✓
D	✗	✓	✗

2 What are the names of the compounds shown in the reaction scheme below?



	W	X	Y	Z
A	ethane	ethene	ethanol	ethanoic acid
B	ethane	ethene	ethanoic acid	ethanol
C	ethene	ethane	ethanol	ethanoic acid
D	ethene	ethane	ethanoic acid	ethanol

3 The diagram shows the structure of a compound.



Which functional groups does this molecule contain?

	carboxylic acid	alkene	alcohol
A	no	no	no
B	no	yes	yes
C	yes	no	yes
D	yes	yes	yes

4 Increasing the number of atoms in one molecule of a hydrocarbon increases the amount of energy released when it burns.

What is the correct order?

	less energy released → more energy released		
A	ethene	ethane	methane
B	ethene	methane	ethane
C	methane	ethane	ethene
D	methane	ethene	ethane

5 The list gives the names of four organic compounds.

ethane

ethanoic acid

ethanol

ethene

Which bond do all four compounds contain?

A C–C **B** C=C **C** C–H **D** C–O

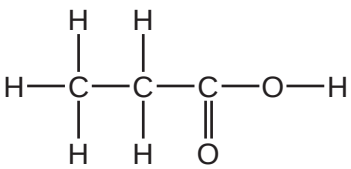
6 Organic compounds may have names ending in -ane, -ene, -ol or -oic acid.

How many of these endings indicate the compounds contain double bonds in their molecules?

A 1 **B** 2 **C** 3 **D** 4

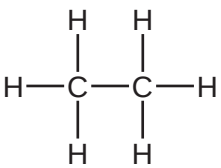
7 Which structure is correctly named?

A



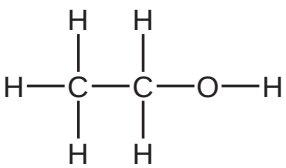
ethanoic acid

B



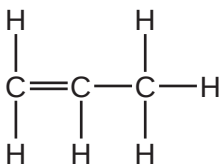
ethene

C



ethanol

D



propane