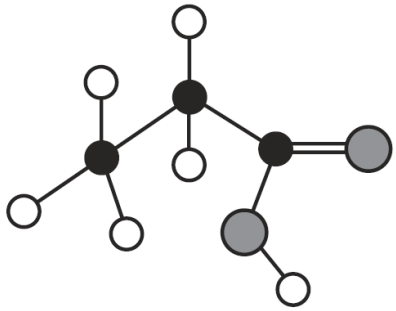
NO:	RELATIVE MOLECULAR MASS-RELATIVE FORMULA MASS-RELATIVE ATOMIC MASS-SET-2
1	The diagram shows a model of a molecule of an organic acid.  What is the relative molecular mass of this acid? **A** 11 **B** 40 **C** 58 **D** 74
2	A compound has the formula CH_3CO_2H. How should the relative molecular mass, M_r, of this compound be calculated? **A** 12 + 1 + 16 **B** 3(12 + 1) + 2(12 + 16) + 1 **C** (4 × 12) + (2 × 1) + 16 **D** (2 × 12) + (4 × 1) + (2 × 16)

3

Element X is in Group VII of the Periodic Table.

It reacts with aqueous potassium bromide as shown.

$$X_2 + 2KBr \rightarrow 2KX + Br_2$$

Which statements about X are correct?

	relative atomic mass	reactivity
A	greater than that of bromine	less reactive than bromine
B	greater than that of bromine	more reactive than bromine
C	less than that of bromine	less reactive than bromine
D	less than that of bromine	more reactive than bromine

4

Which relative molecular mass, M_r, is **not** correct for the molecule given?

	molecule	M_r
A	ammonia, NH_3	17
B	carbon dioxide, CO_2	44
C	methane, CH_4	16
D	oxygen, O_2	16

5

Caesium chloride and rubidium bromide are halide compounds of Group I elements.

Caesium chloride has the formula ……1……, a relative formula mass ……2…… that of rubidium bromide and bonds that are ……3…… .

Which words correctly complete gaps 1, 2 and 3?

	1	2	3
A	CaC*l*	different from	ionic
B	CaC*l*	the same as	covalent
C	CsC*l*	different from	ionic
D	CsC*l*	the same as	covalent

6

Iron forms an oxide with the formula Fe_2O_3.

What is the relative formula mass of this compound?

A 76 **B** 100 **C** 136 **D** 160

7

The relative atomic mass of chlorine is 35.5.

When calculating relative atomic mass, which particle is the mass of a chlorine atom compared to?

A a neutron

B a proton

C an atom of carbon-12

D an atom of hydrogen-1