

NO:	RELATIVE MOLECULAR MASS-RELATIVE FORMULA MASS-RELATIVE ATOMIC MASS-SET-1															
1	<p>A sample of 16.0 g of a metal oxide, MO, is reduced to 12.8 g of the metal, M.</p> <p>What is the relative atomic mass, A_r, of M?</p> <p>A 32 B 64 C 80 D 128</p>															
Ms-1	B															
2	<p>The relative atomic mass of oxygen is 16 and that of hydrogen is 1.</p> <p>This means that ... (i) ... of oxygen has the same mass as ... (ii) ... of hydrogen.</p> <p>Which words correctly complete the gaps?</p> <table border="1" data-bbox="272 848 894 1182"> <thead> <tr> <th></th> <th>gap (i)</th> <th>gap (ii)</th> </tr> </thead> <tbody> <tr> <td>A</td> <td>an atom</td> <td>thirty-two molecules</td> </tr> <tr> <td>B</td> <td>an atom</td> <td>eight molecules</td> </tr> <tr> <td>C</td> <td>a molecule</td> <td>sixteen atoms</td> </tr> <tr> <td>D</td> <td>a molecule</td> <td>eight atoms</td> </tr> </tbody> </table>		gap (i)	gap (ii)	A	an atom	thirty-two molecules	B	an atom	eight molecules	C	a molecule	sixteen atoms	D	a molecule	eight atoms
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Ms-2	B															
3	<p>The compound ethyl mercaptan, C_2H_5SH, has a very unpleasant smell.</p> <p>What is its relative molecular mass?</p> <p>A 34 B 50 C 61 D 62</p>															
Ms-3	D															

4

Students are asked to state

- the number of atoms in one molecule of ethanoic acid,
- the relative molecular mass, M_r , of this acid.

Which line is correct?

	number of atoms	M_r
A	8	32
B	8	60
C	9	26
D	9	46

Ms-4

B

5

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

Ms-5

D

6	<p>What is the relative molecular mass (M_r) of HNO_3?</p> <p>A 5 B 31 C 32 D 63</p>
Ms-6	D
7	<p>A compound with the formula XF_2 has a relative formula mass of 78.</p> <p>What is element X?</p> <p>A argon B calcium C neon D zirconium</p>
Ms-7	B
8	<p>In athletics, banned drugs such as nandrolone have been taken illegally to improve performance. Nandrolone has the molecular formula $\text{C}_{18}\text{H}_{26}\text{O}_2$.</p> <p>What is the relative molecular mass, M_r, of nandrolone?</p> <p>(Relative atomic mass: H = 1; C = 12; O = 16)</p> <p>A 46 B 150 C 274 D 306</p>
Ms-8	C
9	<p>What is the relative molecular mass, M_r, of nitrogen dioxide?</p> <p>A 15 B 23 C 30 D 46</p>
Ms-9	D

10	<p>In athletics, banned drugs such as nandrolone have been taken illegally to improve performance. Nandrolone has the molecular formula $C_{18}H_{26}O_2$.</p> <p>What is the relative molecular mass, M_r, of nandrolone?</p> <p>(Relative atomic mass: H = 1; C = 12; O = 16)</p> <p>A 46 B 150 C 274 D 306</p>
Ms-10	C
11	<p>What is the relative formula mass, M_r, of $CaCO_3$?</p> <p>A 50 B 68 C 100 D 204</p>
Ms-11	C