Moles and reacting masses

Answers

GCSE science calculations

This topic online

Q	Answer	Marks
1	2 mol	2
2	0.5 mol	2
3	2.41×10^{23}	2
4	25 mol	3
5	2.5×10^{-3} mol	3
6	1.20×10^{21}	3
7	6.0 g	2
8	64	2
9	0.05 mol	2
10	3.18 g	4
11	**a)** 0.2 mol **b)** 0.3 mol **c)** 0.2 mol **d)** open: 2Al + 3Cl2 → 2AlCl3. The moles are in the ratio 0.2 : 0.3 : 0.2. Dividing by the smallest gives 1 : 1.5 : 1, and doubling to get whole numbers gives 2 : 3 : 2.	5
12	**a)** sulfur **b)** 8.8 g **c)** 1.4 g	5

Full worked solutions, written out by hand, are on the solutions sheet for this topic.

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