

Questions

Level 1: Two Isotope of a Real Element

Question 1

Calculate the average atomic mass for the following element.

Analysis Results:		
Isotope	Abundance (%)	Mass (amu)
1	20.0	10.0
2	80.0	11.0

Question 2

Calculate the average atomic mass for the following element.

Analysis Results:		
Isotope	Abundance (%)	Mass (amu)
1	76.0	35.0
2	24.0	37.0

Question 3

Calculate the average atomic mass for the following element.

Analysis Results:		
Isotope	Abundance (%)	Mass (amu)
1	69.0	63.0
2	31.0	65.0

Question 4

Calculate the average atomic mass for the following element.

Analysis Results:		
Isotope	Abundance (%)	Mass (amu)
1	60.0	69.0
2	40.0	71.0

Question 5

Calculate the average atomic mass for the following element.

Analysis Results:		
Isotope	Abundance (%)	Mass (amu)
1	72.0	85.0
2	28.0	87.0

Question 6

Calculate the average atomic mass for the following element.

Analysis Results:		
Isotope	Abundance (%)	Mass (amu)
1	57.0	121.0
2	43.0	123.0

Question 7

Calculate the average atomic mass for the following element.

Analysis Results:		
Isotope	Abundance (%)	Mass (amu)
1	37.0	185.0
2	63.0	187.0

Question 8

Calculate the average atomic mass for the following element.

Analysis Results:		
Isotope	Abundance (%)	Mass (amu)
1	37.0	191.0
2	63.0	193.0

Question 9

Calculate the average atomic mass for the following element.

Analysis Results:		
Isotope	Abundance (%)	Mass (amu)
1	30.0	203.0
2	70.0	205.0

Level 2: Three Isotopes, Real Element**Question 10**

Calculate the average atomic mass for the following element.

Analysis Results:		
Isotope	Abundance (%)	Mass (amu)
1	90.0	20.0
2	1.0	21.0
3	9.0	22.0

Question 11

Calculate the average atomic mass for the following element.

Analysis Results:		
Isotope	Abundance (%)	Mass (amu)
1	80.0	24.0
2	10.0	25.0
3	10.0	26.0

Question 12

Calculate the average atomic mass for the following element.

Analysis Results:		
Isotope	Abundance (%)	Mass (amu)
1	92.0	28.0
2	5.0	29.0
3	3.0	30.0

Question 13

Calculate the average atomic mass for the following element.

Analysis Results:		
Isotope	Abundance (%)	Mass (amu)
1	10.0	86.0
2	7.0	87.0
3	83.0	88.0

Question 14

Calculate the average atomic mass for the following element.

Analysis Results:		
Isotope	Abundance (%)	Mass (amu)
1	24.0	206.0
2	23.0	207.0
3	53.0	208.0

Level 3: Two Isotopes, Fictitious Element

Question 15

Calculate the average atomic mass for the following element.

Analysis Results:		
Isotope	Abundance (%)	Mass (amu)
1	24.0	18.0
2	76.0	19.0

Question 16

Calculate the average atomic mass for the following element.

Analysis Results:		
Isotope	Abundance (%)	Mass (amu)
1	16.0	32.0
2	84.0	34.0

Question 17

Calculate the average atomic mass for the following element.

Analysis Results:		
Isotope	Abundance (%)	Mass (amu)
1	32.0	42.0
2	68.0	44.0

Question 18

Calculate the average atomic mass for the following element.

Analysis Results:		
Isotope	Abundance (%)	Mass (amu)
1	36.0	45.0
2	64.0	46.0

Question 19

Calculate the average atomic mass for the following element.

Analysis Results:		
Isotope	Abundance (%)	Mass (amu)
1	60.0	65.0
2	40.0	67.0

Question 20

Calculate the average atomic mass for the following element.

Analysis Results:		
Isotope	Abundance (%)	Mass (amu)
1	58.0	72.0
2	42.0	74.0

Question 21

Calculate the average atomic mass for the following element.

Analysis Results:		
Isotope	Abundance (%)	Mass (amu)
1	72.0	80.0
2	28.0	82.0

Question 22

Calculate the average atomic mass for the following element.

Analysis Results:		
Isotope	Abundance (%)	Mass (amu)
1	78.0	94.0
2	22.0	95.0

Level 4: Three Isotopes, Fictitious Element**Question 23**

Calculate the average atomic mass for the following element.

Analysis Results:		
Isotope	Abundance (%)	Mass (amu)
1	12.0	24.0
2	60.0	25.0
3	28.0	26.0

Question 24

Calculate the average atomic mass for the following element.

Analysis Results:		
Isotope	Abundance (%)	Mass (amu)
1	65.0	28.0
2	22.0	29.0
3	13.0	30.0

Question 25

Calculate the average atomic mass for the following element.

Analysis Results:		
Isotope	Abundance (%)	Mass (amu)
1	21.0	34.0
2	12.0	35.0
3	67.0	36.0

Question 26

Calculate the average atomic mass for the following element.

Analysis Results:		
Isotope	Abundance (%)	Mass (amu)
1	40.0	50.0
2	28.0	51.0
3	32.0	52.0

Question 27

Calculate the average atomic mass for the following element.

Analysis Results:		
Isotope	Abundance (%)	Mass (amu)
1	16.0	55.0
2	24.0	56.0
3	60.0	57.0

Question 28

Calculate the average atomic mass for the following element.

Analysis Results:		
Isotope	Abundance (%)	Mass (amu)
1	32.0	60.0
2	28.0	61.0
3	40.0	62.0

Question 29

Calculate the average atomic mass for the following element.

Analysis Results:		
Isotope	Abundance (%)	Mass (amu)
1	55.0	76.0
2	12.0	77.0
3	33.0	78.0

Question 30

Calculate the average atomic mass for the following element.

Analysis Results:		
Isotope	Abundance (%)	Mass (amu)
1	11.0	84.0
2	48.0	85.0
3	41.0	86.0