Ionization Energy Trend

Played on	**12 Nov 2019**
Hosted by	**kaitlynmare**
Played with	**27 players**
Played	**10 of 10**

Overall Performance

Total correct answers (%)	69,63%
Total incorrect answers (%)	30,37%
Average score (points)	7295,5

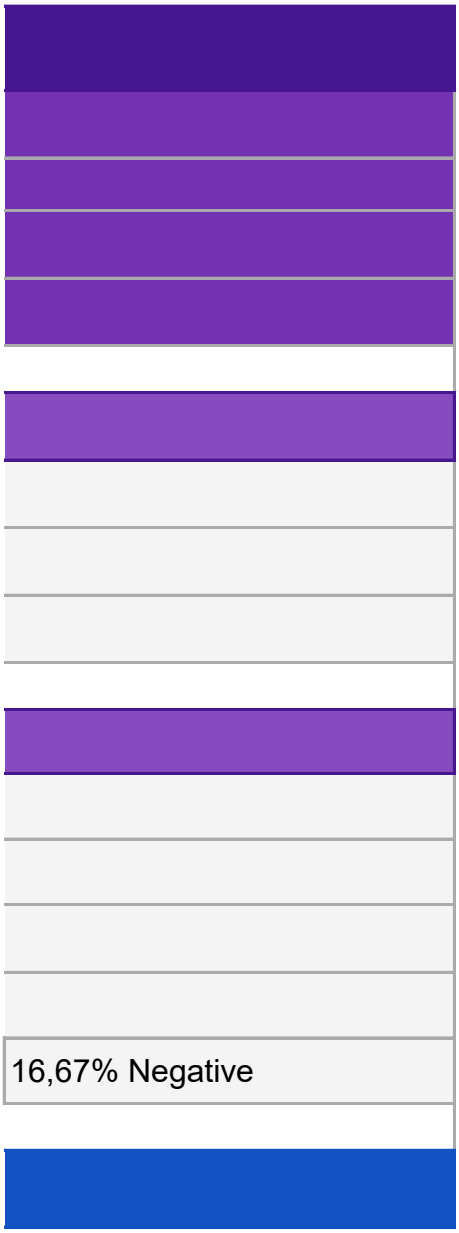
Feedback

Number of responses	6
How fun was it? (out of 5)	3,00 o
Did you learn something?	50,00%
Do you recommend it?	50,00%
How do you feel?	◉

Switch tabs/pages to view other result breakdown

%
%
56 points

ut of 5			
% Yes		50,00% No	
% Yes		50,00% No	
50,00% Positive	◉	33,33% Neutral	◉


16,67% Negative

Ionization Energy Trend

Final Scores

Rank	Players
1	aidan
2	caroline
3	reagan
4	Maddie ❄
5	kaitlyn
6	Noah
7	Karlee
8	Parker
9	Hudson
10	aj
11	Shepard
12	Cole
13	Tyler the Great
14	Mikayla :-)
15	Chris
16	Kyle Daniels
17	braxton
18	netta
19	Sam Sweetser
20	adelle
21	Mithil
22	bri

Final Scores

23	sam
24	max
25	kAHoot.NINjA ????
26	KaHOOt.nINJa ??
27	kAHoOt.nINJa ????

Final Scores

Total Score (points)	Correct Answers	Incorrect Answers
12741	10	0
12661	10	0
10341	9	1
10164	9	1
9505	9	1
9448	9	1
9274	9	1
9251	9	1
8679	8	2
8462	8	2
8392	8	2
8144	8	2
8006	8	2
7944	8	2
7788	8	2
7640	8	2
7618	8	2
7467	7	3
7102	7	3
6100	6	4
6058	6	4
5457	6	4

Final Scores

4416	5	5
4322	5	5
0	0	10
0	0	10
0	0	10

Ionization Energy Trend

Kahoot! Summary

Rank	Players
1	aidan
2	caroline
3	reagan
4	Maddie ❄
5	kaitlyn
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8	Parker
9	Hudson
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11	Shepard
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14	Mikayla :-)
15	Chris

16	Kyle Daniels
17	braxton
18	netta
19	Sam Sweetser
20	adelle
21	Mithil
22	bri
23	sam
24	max
25	kAHoot.NINjA ????
26	KaHOOt.nINJa ??
27	kAHoOt.nINJa ????

Total Score (points)	Q1
12741	940
12661	918
10341	852
10164	893
9505	778
9448	720
9274	823
9251	945
8679	937
8462	747
8392	922
8144	857
8006	925
7944	880
7788	0

Kahoot! Summary

7640	755
7618	868
7467	948
7102	750
6100	0
6058	960
5457	0
4416	0
4322	0
0	0
0	0
0	0

What is first ionization energy?	Q2
the energy to remove 1 valence electron from the outermost orbital	1018
the energy to remove 1 valence electron from the outermost orbital	1005
the energy to remove 1 valence electron from the outermost orbital	962
the energy to remove 1 valence electron from the outermost orbital	930
the energy to remove 1 valence electron from the outermost orbital	0
the energy to remove 1 valence electron from the outermost orbital	817
the energy to remove 1 valence electron from the outermost orbital	0
the energy to remove 1 valence electron from the outermost orbital	650
the energy to remove 1 valence electron from the outermost orbital	0
the energy to remove 1 valence electron from the outermost orbital	0
the energy to remove 1 valence electron from the outermost orbital	0
the energy to remove 1 valence electron from the outermost orbital	0
the energy to remove 1 valence electron from the outermost orbital	0
the energy to remove 1 valence electron from the outermost orbital	0
	697

the energy to remove 1 valence electron from the outermost orbital	0
the energy to remove 1 valence electron from the outermost orbital	0
the energy to remove 1 valence electron from the outermost orbital	0
the energy to remove 1 valence electron from the outermost orbital	0
energy put into 1 valence electron from the innermost orbital	0
the energy to remove 1 valence electron from the outermost orbital	0
energy put into 1 valence electron from the innermost orbital	563
	0
	0
	0
	0
	0

Which trend is directly proportional to ionization energy?	Q3
electronegativity	1048
electronegativity	1155
electronegativity	1090
electronegativity	1070
atomic radius trend	907
electronegativity	1033
atomic radius trend	872
electronegativity	963
metallic properties	972
metallic properties	933
atomic radius trend	910
ionic radius trend	883
atomic radius trend	803
ionic radius trend	953
electronegativity	915

Kahoot! Summary

atomic radius trend	917
ionic radius trend	893
ionic radius trend	905
atomic radius trend	868
atomic radius trend	880
atomic radius trend	903
electronegativity	1065
atomic radius trend	730
atomic radius trend	547
	0
	0
	0

What happens when successive ionization energies are measured?	Q4
it increases	1265
it increases	1262
it increases	1277
it increases	1263
it increases	1015
it increases	1228
it increases	965
it increases	1257
it increases	1040
it increases	1058
it increases	1068
it increases	1023
it increases	968
it increases	1045
it increases	925

Kahoot! Summary

it increases	967
it increases	1000
it increases	1075
it increases	1037
it increases	1055
it increases	1078
it increases	1043
it increases	1007
it increases	985
	0
	0
	0

How is ionization energy measured?	Q5
in kilojoules per mole	1278
in kilojoules per mole	1265
in kilojoules per mole	1305
in kilojoules per mole	1228
in kilojoules per mole	990
in kilojoules per mole	1248
in kilojoules per mole	887
in kilojoules per mole	1177
in kilojoules per mole	1067
in kilojoules per mole	1135
in kilojoules per mole	1047
in kilojoules per mole	1065
in kilojoules per mole	1010
in kilojoules per mole	1113
in kilojoules per mole	1087

Kahoot! Summary

in kilojoules per mole	975
in kilojoules per mole	1012
in kilojoules per mole	1100
in kilojoules per mole	1033
in kilojoules per mole	995
in kilojoules per mole	0
in kilojoules per mole	1065
in kilojoules per mole	0
in kilojoules per mole	0
	0
	0
	0

What happens to the trend moving from left to right across a period?	Q6
The ionization energy increases when going left to right.	1452
The ionization energy increases when going left to right.	1440
The ionization energy increases when going left to right.	1422
The ionization energy increases when going left to right.	1380
The ionization energy increases when going left to right.	1162
The ionization energy increases when going left to right.	1263
The ionization energy increases when going left to right.	1135
The ionization energy increases when going left to right.	1375
The ionization energy increases when going left to right.	1250
The ionization energy increases when going left to right.	1218
The ionization energy increases when going left to right.	1190
The ionization energy increases when going left to right.	1192
The ionization energy increases when going left to right.	1182
The ionization energy increases when going left to right.	1120
The ionization energy increases when going left to right.	1123

The ionization energy increases when going left to right.	1113
The ionization energy increases when going left to right.	1130
The ionization energy increases when going left to right.	1122
The ionization energy increases when going left to right.	1158
The ionization energy increases when going left to right.	1005
The ionization energy decreases when going left to right.	967
The ionization energy increases when going left to right.	0
All of the above	828
	0
	0
	0
	0

How does this trend affect noble gases?	Q7
have a high amount of energy	1420
have a high amount of energy	1388
have a high amount of energy	1473
have a high amount of energy	1452
have a high amount of energy	1235
have a high amount of energy	1372
have a high amount of energy	1250
have a high amount of energy	1422
have a high amount of energy	1368
have a high amount of energy	1360
have a high amount of energy	1330
have a high amount of energy	1285
have a high amount of energy	1320
have a high amount of energy	1363
have a high amount of energy	1360

Kahoot! Summary

have a high amount of energy	1253
have a high amount of energy	1283
have a high amount of energy	1342
have a high amount of energy	1293
have a high amount of energy	1237
have a high amount of energy	998
have a positive amount of energy	0
have a high amount of energy	908
have a neutral amount of energy	0
	0
	0
	0

What happens to the trend moving down in a group?	Q8
Ionization energy will decrease	1367
Ionization energy will decrease	1315
Ionization energy will decrease	0
Ionization energy will decrease	0
Ionization energy will decrease	1130
Ionization energy will decrease	0
Ionization energy will decrease	1037
Ionization energy will decrease	0
Ionization energy will decrease	0
Ionization energy will decrease	0
Ionization energy will decrease	0
Ionization energy will decrease	0
Ionization energy will decrease	0
Ionization energy will decrease	0
Ionization energy will decrease	0

Kahoot! Summary

Ionization energy will decrease	0
Ionization energy will decrease	0
Ionization energy will decrease	0
Ionization energy will decrease	0
Ionization energy will decrease	0
Ionization energy will decrease	1152
Ionization energy will increase	0
Ionization energy will decrease	0
Ionization energy will increase	977
	0
	0
	0

How does Coulomb's Law affect this trend?	Q9
Less orbitals require more IE	1478
Less orbitals require more IE	1455
More orbitals require more IE	952
More orbitals require more IE	945
Less orbitals require more IE	1073
More orbitals require more IE	807
Less orbitals require more IE	1083
# orbitals does not relate to IE	685
More orbitals require more IE	980
More orbitals require more IE	943
More orbitals require more IE	892
More orbitals require more IE	782
More orbitals require more IE	750
More orbitals require more IE	642
More orbitals require more IE	763

Kahoot! Summary

More orbitals require more IE	823
More orbitals require more IE	627
More orbitals require more IE	975
More orbitals require more IE	963
More orbitals require more IE	928
Less orbitals require more IE	0
More orbitals require more IE	858
# orbitals does not relate to IE	943
Less orbitals require more IE	1083
	0
	0
	0

Which group/element has the LARGEST value for this trend?	Q10
Noble Gases/He	1475
Noble Gases/He	1458
Noble Gases/He	1008
Noble Gases/He	1003
Noble Gases/He	1215
Noble Gases/He	960
Noble Gases/He	1222
Noble Gases/He	777
Noble Gases/He	1065
Noble Gases/He	1068
Noble Gases/He	1033
Noble Gases/He	1057
Noble Gases/He	1048
Noble Gases/He	828
Noble Gases/He	918

Kahoot! Summary

Noble Gases/He	837
Noble Gases/He	805
Noble Gases/He	0
Noble Gases/He	0
Noble Gases/He	0
Noble Gases/Rn	0
Noble Gases/He	863
Noble Gases/He	0
Noble Gases/He	730
	0
	0
	0

When atoms transfer electrons it is called
Ionic Bonding
Ionic Bonding
Ionic Bonding
Ionic Bonding
Ionic Bonding
Ionic Bonding
Ionic Bonding
Ionic Bonding
Ionic Bonding
Ionic Bonding
Ionic Bonding
Ionic Bonding
Ionic Bonding
Ionic Bonding
Ionic Bonding

Ionic Bonding
Ionic Bonding
Covalent Bonding
Covalent Bonding
Covalent Bonding
Covalent Bonding
Ionic Bonding
Covalent Bonding
Ionic Bonding

Ionizatior

1 Quiz

Correct answers
Players correct (
Question duratic

Answer Sun

Answer options
Is answer correc
Number of answ
Average time tal

Answer Det

Players
Chris
Cole
Hudson
KaHOOt.nINJa
Karlee
Kyle Daniels
Maddie ❄
Mikayla :-)
Mithil
Noah

Parker
Sam Sweetser
Shepard
Tyler the Great
adelle
aidan
aj
braxton
bri
caroline
kAHoOt.nINJa ?
kAHoot.NINjA ?'
kaitlyn
max
netta
reagan
sam

n Energy Trend

What is first ionization energy?

s	the ener
(%)	70,37%
on	30 secor

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	▲
ct?	
vers received	
ken to answer (seconds)	

ails

	Answer
	✗
	✓
	✓
??	✗
	✓
	✓
	✓
	✓
	✓
	✓

	☑
	☑
	☑
	☑
	✗
	☑
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	☑
	✗
	☑
'???	✗
???	✗
	☑
	✗
	☑
	☑
	✗

gy to remove 1 valence electron from the outermost orbital
nds

energy put into 1 valence electron from the innermost orbital	♦
✗	
2	
7,20	

	Score (p
	0
the energy to remove 1 valence electron from the outermost orbital	857
the energy to remove 1 valence electron from the outermost orbital	937
	0
the energy to remove 1 valence electron from the outermost orbital	823
the energy to remove 1 valence electron from the outermost orbital	755
the energy to remove 1 valence electron from the outermost orbital	893
the energy to remove 1 valence electron from the outermost orbital	880
the energy to remove 1 valence electron from the outermost orbital	960
the energy to remove 1 valence electron from the outermost orbital	720

the energy to remove 1 valence electron from the outermost orbital	945
the energy to remove 1 valence electron from the outermost orbital	750
the energy to remove 1 valence electron from the outermost orbital	922
the energy to remove 1 valence electron from the outermost orbital	925
energy put into 1 valence electron from the innermost orbital	0
the energy to remove 1 valence electron from the outermost orbital	940
the energy to remove 1 valence electron from the outermost orbital	747
the energy to remove 1 valence electron from the outermost orbital	868
energy put into 1 valence electron from the innermost orbital	0
the energy to remove 1 valence electron from the outermost orbital	918
	0
	0
the energy to remove 1 valence electron from the outermost orbital	778
	0
the energy to remove 1 valence electron from the outermost orbital	948
the energy to remove 1 valence electron from the outermost orbital	852
	0

the energy to remove 1 valence electron from the outermost orbital	●
✓	
19	
8,15	

oints)	Current
	0
	857
	937
	0
	823
	755
	893
	880
	960
	720

	945
	750
	922
	925
	0
	940
	747
	868
	0
	918
	0
	0
	778
	0
	948
	852
	0

Total Score (points)	Answer ti
	30
	8,6
	3,8
	30
	10,6
	14,7
	6,4
	7,2
	2,4
	16,8

	3,3
	15
	4,7
	4,5
	7,8
	3,6
	15,2
	7,9
	6,6
	4,9
	30
	30
	13,3
	30
	3,1
	8,9
	30

ime (seconds)

Ionizatior
2 Quiz
Correct answers
Players correct (
Question duratic
Answer Sun
Answer options
Is answer correc
Number of answ
Average time tal
Answer Det
Players
Chris
Cole
Hudson
KaHOOt.nINJa
Karlee
Kyle Daniels
Maddie ❄
Mikayla :-)
Mithil
Noah

Parker
Sam Sweetser
Shepard
Tyler the Great
adelle
aidan
aj
braxton
bri
caroline
kAHoOt.nINJa ?
kAHoot.NINjA ?'
kaitlyn
max
netta
reagan
sam

n Energy Trend

Which trend is directly proportional to ionization energy?

s	electrone
(%)	29,63%
on	30 secor

mmary

	▲
ct?	
wers received	
ken to answer (seconds)	

ails

	Answer
	☑
	✗
	✗
??	✗
	✗
	✗
	☑
	✗
	✗
	☑

	☑
	✗
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	✗
	✗
	☑
	✗
	✗
	☑
	☑
'???	✗
???	✗
	✗
	✗
	✗
	☑
	✗

egativity
nds

electronegativity	♦
✓	
8	
14,69	

	Score (p
electronegativity	697
ionic radius trend	0
metallic properties	0
	0
atomic radius trend	0
atomic radius trend	0
electronegativity	930
ionic radius trend	0
atomic radius trend	0
electronegativity	817

electronegativity	650
atomic radius trend	0
atomic radius trend	0
atomic radius trend	0
atomic radius trend	0
electronegativity	1018
metallic properties	0
ionic radius trend	0
electronegativity	563
electronegativity	1005
	0
	0
atomic radius trend	0
atomic radius trend	0
ionic radius trend	0
electronegativity	962
atomic radius trend	0

atomic radius trend	●
✗	
10	
16,45	

oints)	Current
	697
	857
	937
	0
	823
	755
	1823
	880
	960
	1537

	1595
	750
	922
	925
	0
	1958
	747
	868
	563
	1923
	0
	0
	778
	0
	948
	1814
	0

ionic radius trend	■
✗	
4	
22,43	

Total Score (points)	Answer ti
	18,2
	27,8
	13,9
	30
	28,1
	16,6
	10,2
	23,2
	3,7
	17

	27
	25,3
	19,9
	6,8
	13,1
	4,9
	12,1
	27,9
	26,2
	5,7
	30
	30
	25,7
	14,1
	10,8
	8,3
	11,2

metallic properties
✗
2
13,00
me (seconds)

Ionizatior
3 Quiz
Correct answers
Players correct (
Question duratic
Answer Sun
Answer options
Is answer correc
Number of answ
Average time tal
Answer Det
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kaitlyn
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netta
reagan
sam

n Energy Trend

What happens when successive ionization energies are measured

s	it increas
(%)	88,89%
on	30 secor

mmary

	▲
ct?	
vers received	
ken to answer (seconds)	

ails

	Answer
	✓
	✓
	✓
??	✗
	✓
	✓
	✓
	✓
	✓
	✓

	☑
	☑
	☑
	☑
	☑
	☑
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	☑
'???	✗
???	✗
	☑
	☑
	☑
	☑
	☑

d?
ses
nds

it increases	♦
☑	
24	
7,96	

	Score (p
it increases	915
it increases	883
it increases	972
	0
it increases	872
it increases	917
it increases	1070
it increases	953
it increases	903
it increases	1033

it increases	963
it increases	868
it increases	910
it increases	803
it increases	880
it increases	1048
it increases	933
it increases	893
it increases	1065
it increases	1155
	0
	0
it increases	907
it increases	547
it increases	905
it increases	1090
it increases	730

it stays the same	●
✗	
0	
0,00	

oints)	Current
	1612
	1740
	1909
	0
	1695
	1672
	2893
	1833
	1863
	2570

	2558
	1618
	1832
	1728
	880
	3006
	1680
	1761
	1628
	3078
	0
	0
	1685
	547
	1853
	2904
	730

none	■
✗	
0	
0,00	

Total Score (points)	Answer ti
	11,1
	7
	1,7
	30
	7,7
	5
	7,8
	2,8
	5,8
	10

	14,2
	7,9
	5,4
	11,8
	7,2
	9,1
	4
	6,4
	2,1
	2,7
	30
	30
	5,6
	27,2
	5,7
	6,6
	16,2

it decreases
✗
0
0,00
me (seconds)

Ionizatior
4 Quiz
Correct answers
Players correct (
Question duratic
Answer Sun
Answer options
Is answer correc
Number of answ
Average time tal
Answer Det
Players
Chris
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caroline
kAHoOt.nINJa ?
kAHoot.NINjA ?'
kaitlyn
max
netta
reagan
sam

n Energy Trend

How is ionization energy measured?

s	in kilojou
(%)	88,89%
on	30 secor

mmary

	▲
ct?	
wers received	
ken to answer (seconds)	

ails

	Answer
	✓
	✓
	✓
??	✗
	✓
	✓
	✓
	✓
	✓
	✓

	☑
	☑
	☑
	☑
	☑
	☑
	☑
	☑
	☑
	☑
'???	✗
???	✗
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	☑
	☑
	☑
	☑

ıles per mole
ıds

grams	♦
✗	
0	
0,00	

	Score (p
in kilojoules per mole	925
in kilojoules per mole	1023
in kilojoules per mole	1040
	0
in kilojoules per mole	965
in kilojoules per mole	967
in kilojoules per mole	1263
in kilojoules per mole	1045
in kilojoules per mole	1078
in kilojoules per mole	1228

in kilojoules per mole	1257
in kilojoules per mole	1037
in kilojoules per mole	1068
in kilojoules per mole	968
in kilojoules per mole	1055
in kilojoules per mole	1265
in kilojoules per mole	1058
in kilojoules per mole	1000
in kilojoules per mole	1043
in kilojoules per mole	1262
	0
	0
in kilojoules per mole	1015
in kilojoules per mole	985
in kilojoules per mole	1075
in kilojoules per mole	1277
in kilojoules per mole	1007

centimeters	●
✗	
0	
0,00	

oints)	Current
	2537
	2763
	2949
	0
	2660
	2639
	4156
	2878
	2941
	3798

	3815
	2655
	2900
	2696
	1935
	4271
	2738
	2761
	2671
	4340
	0
	0
	2700
	1532
	2928
	4181
	1737

in kilojoules per mole	■
✓	
24	
4,73	

Total Score (points)	Answer ti
	16,5
	4,6
	3,6
	30
	8,1
	8
	2,2
	3,3
	1,3
	4,3

	2,6
	3,8
	1,9
	7,9
	2,7
	2,1
	2,5
	6
	9,4
	2,3
	30
	30
	5,1
	6,9
	1,5
	1,4
	5,6

milliliters
✗
0
0,00
me (seconds)

Ionizatior
5 Quiz
Correct answers
Players correct (
Question duratic
Answer Sun
Answer options
Is answer correc
Number of answ
Average time tal
Answer Det
Players
Chris
Cole
Hudson
KaHOOt.nINJa
Karlee
Kyle Daniels
Maddie ❄
Mikayla :-)
Mithil
Noah

Parker
Sam Sweetser
Shepard
Tyler the Great
adelle
aidan
aj
braxton
bri
caroline
kAHoOt.nINJa ?
kAHoot.NINjA ?'
kaitlyn
max
netta
reagan
sam

n Energy Trend

What happens to the trend moving from left to right across a peri

s	The ioniz
(%)	77,78%
on	30 secor

mmary

	▲
ct?	
vers received	
ken to answer (seconds)	

ails

	Answer
	✓
	✓
	✓
??	✗
	✓
	✓
	✓
	✓
	✗
	✓

	☑
	☑
	☑
	☑
	☑
	☑
	☑
	☑
	☑
	☑
'???	✗
???	✗
	☑
	✗
	☑
	☑
	✗

od?
zation energy increases when going left to right.
nds

The ionization energy increases when going left to right.	♦
✓	
21	
10,05	

	Score (p
The ionization energy increases when going left to right.	1087
The ionization energy increases when going left to right.	1065
The ionization energy increases when going left to right.	1067
	0
The ionization energy increases when going left to right.	887
The ionization energy increases when going left to right.	975
The ionization energy increases when going left to right.	1228
The ionization energy increases when going left to right.	1113
The ionization energy decreases when going left to right.	0
The ionization energy increases when going left to right.	1248

The ionization energy increases when going left to right.	1177
The ionization energy increases when going left to right.	1033
The ionization energy increases when going left to right.	1047
The ionization energy increases when going left to right.	1010
The ionization energy increases when going left to right.	995
The ionization energy increases when going left to right.	1278
The ionization energy increases when going left to right.	1135
The ionization energy increases when going left to right.	1012
The ionization energy increases when going left to right.	1065
The ionization energy increases when going left to right.	1265
	0
	0
The ionization energy increases when going left to right.	990
	0
The ionization energy increases when going left to right.	1100
The ionization energy increases when going left to right.	1305
All of the above	0

The ionization energy decreases when going left to right.
✗
1
11,20

oints)	Current
	3624
	3828
	4016
	0
	3547
	3614
	5384
	3991
	2941
	5046

	4992
	3688
	3947
	3706
	2930
	5549
	3873
	3773
	3736
	5605
	0
	0
	3690
	1532
	4028
	5486
	1737

The ionization energy stays the same when going left to right.	■
✗	
0	
0,00	

Total Score (points)	Answer ti
	12,8
	8,1
	8
	30
	18,8
	13,5
	10,3
	5,2
	11,2
	9,1

	13,4
	10
	9,2
	11,4
	12,3
	7,3
	3,9
	11,3
	14,1
	8,1
	30
	30
	12,6
	30
	6
	5,7
	3,4

All of the above
✗
1
3,40
me (seconds)

Ionizatior

6 Quiz

Correct answers
Players correct (
Question duratic

Answer Sun

Answer options
Is answer correc
Number of answ
Average time tal

Answer Det

Players
Chris
Cole
Hudson
KaHOOt.nINJa
Karlee
Kyle Daniels
Maddie ❄
Mikayla :-)
Mithil
Noah

Parker
Sam Sweetser
Shepard
Tyler the Great
adelle
aidan
aj
braxton
bri
caroline
kAHoOt.nINJa ?
kAHoot.NINjA ?'
kaitlyn
max
netta
reagan
sam

n Energy Trend

How does this trend affect noble gases?

s	have a h
(%)	81,48%
on	30 secor

mmary

	▲
ct?	
vers received	
ken to answer (seconds)	

ails

	Answer
	✓
	✓
	✓
??	✗
	✓
	✓
	✓
	✓
	✓
	✓

	☑
	☑
	☑
	☑
	☑
	☑
	☑
	☑
	✗
	☑
'???	✗
???	✗
	☑
	✗
	☑
	☑
	☑

igh amount of energy
nds

have a low amount of energy	♦
✗	
0	
0,00	

	Score (p
have a high amount of energy	1123
have a high amount of energy	1192
have a high amount of energy	1250
	0
have a high amount of energy	1135
have a high amount of energy	1113
have a high amount of energy	1380
have a high amount of energy	1120
have a high amount of energy	967
have a high amount of energy	1263

have a high amount of energy	1375
have a high amount of energy	1158
have a high amount of energy	1190
have a high amount of energy	1182
have a high amount of energy	1005
have a high amount of energy	1452
have a high amount of energy	1218
have a high amount of energy	1130
have a positive amount of energy	0
have a high amount of energy	1440
	0
	0
have a high amount of energy	1162
have a neutral amount of energy	0
have a high amount of energy	1122
have a high amount of energy	1422
have a high amount of energy	828

have a high amount of energy
✓
22
8,38

oints)	Current
	4747
	5020
	5266
	0
	4682
	4727
	6764
	5111
	3908
	6309

	6367
	4846
	5137
	4888
	3935
	7001
	5091
	4903
	3736
	7045
	0
	0
	4852
	1532
	5150
	6908
	2565

have a neutral amount of energy	■
✗	
1	
5,60	

Total Score (points)	Answer ti
	16,6
	6,5
	3
	30
	9,9
	11,2
	7,2
	10,8
	2
	14,2

	7,5
	8,5
	6,6
	7,1
	17,7
	2,9
	4,9
	10,2
	5,2
	3,6
	30
	30
	8,3
	5,6
	10,7
	4,7
	10,3

have a positive amount of energy
✗
1
5,20
me (seconds)

Ionizatior
7 Quiz
Correct answers
Players correct (
Question duratic
Answer Sun
Answer options
Is answer correc
Number of answ
Average time tal
Answer Det
Players
Chris
Cole
Hudson
KaHOOt.nINJa '
Karlee
Kyle Daniels
Maddie ❄
Mikayla :-)
Mithil
Noah

Parker
Sam Sweetser
Shepard
Tyler the Great
adelle
aidan
aj
braxton
bri
caroline
kAHoOt.nINJa ?
kAHoot.NINjA ?'
kaitlyn
max
netta
reagan
sam

n Energy Trend

What happens to the trend moving down in a group?

s	Ionizatio
(%)	81,48%
on	30 secor

mmary

	▲
ct?	
vers received	
ken to answer (seconds)	

ails

	Answer
	✓
	✓
	✓
??	✗
	✓
	✓
	✓
	✓
	✓
	✓

	√
	√
	√
	√
	√
	√
	√
	√
	✗
	√
'???	✗
???	✗
	√
	✗
	√
	√
	√

n energy will decrease
nds

Ionization energy will decrease	♦
✓	
22	
5,96	

	Score (p
Ionization energy will decrease	1360
Ionization energy will decrease	1285
Ionization energy will decrease	1368
	0
Ionization energy will decrease	1250
Ionization energy will decrease	1253
Ionization energy will decrease	1452
Ionization energy will decrease	1363
Ionization energy will decrease	998
Ionization energy will decrease	1372

Ionization energy will decrease	1422
Ionization energy will decrease	1293
Ionization energy will decrease	1330
Ionization energy will decrease	1320
Ionization energy will decrease	1237
Ionization energy will decrease	1420
Ionization energy will decrease	1360
Ionization energy will decrease	1283
Ionization energy will increase	0
Ionization energy will decrease	1388
	0
	0
Ionization energy will decrease	1235
Ionization energy will increase	0
Ionization energy will decrease	1342
Ionization energy will decrease	1473
Ionization energy will decrease	908

Ionization energy will increase	●
✗	
2	
9,90	

oints)	Current
	6107
	6305
	6634
	0
	5932
	5980
	8216
	6474
	4906
	7681

	7789
	6139
	6467
	6208
	5172
	8421
	6451
	6186
	3736
	8433
	0
	0
	6087
	1532
	6492
	8381
	3473

Total Score (points)	Answer ti
	8,4
	6,9
	1,9
	30
	9
	8,8
	2,9
	2,2
	6,1
	7,7

	4,7
	6,4
	4,2
	4,8
	9,8
	4,8
	2,4
	7
	8,2
	6,7
	30
	30
	9,9
	11,6
	3,5
	1,6
	11,5

ime (seconds)

Ionizatior

8 Quiz

Correct answers
Players correct (
Question duratic

Answer Sun

Answer options
Is answer correc
Number of answ
Average time tal

Answer Det

Players
Chris
Cole
Hudson
KaHOOt.nINJa
Karlee
Kyle Daniels
Maddie ❄
Mikayla :-)
Mithil
Noah

Parker
Sam Sweetser
Shepard
Tyler the Great
adelle
aidan
aj
braxton
bri
caroline
kAHoOt.nINJa ?
kAHoot.NINjA ?'
kaitlyn
max
netta
reagan
sam

n Energy Trend

How does Coulomb's Law affect this trend?

s	Less orb
(%)	22,22%
on	30 secor

mmary

	▲
ct?	
vers received	
ken to answer (seconds)	

ails

	Answer
	✗
	✗
	✗
??	✗
	☑
	✗
	✗
	✗
	☑
	✗

	✗
	✗
	✗
	✗
	✗
	☑
	✗
	✗
	✗
	☑
'???	✗
???	✗
	☑
	☑
	✗
	✗
	✗

itals require more IE
nds

More orbitals require more IE	♦
✗	
16	
15,21	

	Score (p
More orbitals require more IE	0
More orbitals require more IE	0
More orbitals require more IE	0
	0
Less orbitals require more IE	1037
More orbitals require more IE	0
More orbitals require more IE	0
More orbitals require more IE	0
Less orbitals require more IE	1152
More orbitals require more IE	0

# orbitals does not relate to IE	0
More orbitals require more IE	0
More orbitals require more IE	0
More orbitals require more IE	0
More orbitals require more IE	0
Less orbitals require more IE	1367
More orbitals require more IE	0
More orbitals require more IE	0
More orbitals require more IE	0
Less orbitals require more IE	1315
	0
	0
Less orbitals require more IE	1130
Less orbitals require more IE	977
More orbitals require more IE	0
More orbitals require more IE	0
# orbitals does not relate to IE	0

Less orbitals require more IE	●
✓	
6	
12,23	

oints)	Current
	6107
	6305
	6634
	0
	6969
	5980
	8216
	6474
	6058
	7681

	7789
	6139
	6467
	6208
	5172
	9788
	6451
	6186
	3736
	9748
	0
	0
	7217
	2509
	6492
	8381
	3473

# orbitals does not relate to IE	■
✗	
2	
16,65	

Total Score (points)	Answer ti
	17,8
	19,9
	3
	30
	27,8
	23,6
	14,5
	24
	2,9
	15,4

	19,1
	12
	11,7
	4,7
	18,5
	8
	11,5
	26,9
	19
	11,1
	30
	30
	22,2
	1,4
	7,8
	13
	14,2

ime (seconds)

Ionizatior
9 Quiz
Correct answers
Players correct (
Question duratic
Answer Sun
Answer options
Is answer correc
Number of answ
Average time tal
Answer Det
Players
Chris
Cole
Hudson
KaHOOt.nINJa
Karlee
Kyle Daniels
Maddie ❄
Mikayla :-)
Mithil
Noah

Parker
Sam Sweetser
Shepard
Tyler the Great
adelle
aidan
aj
braxton
bri
caroline
kAHoOt.nINJa ?
kAHoot.NINjA ?'
kaitlyn
max
netta
reagan
sam

n Energy Trend

Which group/element has the LARGEST value for this trend?

s	Noble Ga
(%)	85,19%
on	30 secor

mmary

	▲
ct?	
vers received	
ken to answer (seconds)	

ails

	Answer
	✓
	✓
	✓
??	✗
	✓
	✓
	✓
	✓
	✗
	✓

	☑
	☑
	☑
	☑
	☑
	☑
	☑
	☑
	☑
	☑
'???	✗
???	✗
	☑
	☑
	☑
	☑
	☑

ases/He
nds

Alkali Metals/H	♦
✗	
0	
0,00	

	Score (p
Noble Gases/He	763
Noble Gases/He	782
Noble Gases/He	980
	0
Noble Gases/He	1083
Noble Gases/He	823
Noble Gases/He	945
Noble Gases/He	642
Noble Gases/Rn	0
Noble Gases/He	807

Noble Gases/He	685
Noble Gases/He	963
Noble Gases/He	892
Noble Gases/He	750
Noble Gases/He	928
Noble Gases/He	1478
Noble Gases/He	943
Noble Gases/He	627
Noble Gases/He	858
Noble Gases/He	1455
	0
	0
Noble Gases/He	1073
Noble Gases/He	1083
Noble Gases/He	975
Noble Gases/He	952
Noble Gases/He	943

Noble Gases/He	●
✓	
23	
9,57	

oints)	Current
	6870
	7087
	7614
	0
	8052
	6803
	9161
	7116
	6058
	8488

	8474
	7102
	7359
	6958
	6100
	11266
	7394
	6813
	4594
	11203
	0
	0
	8290
	3592
	7467
	9333
	4416

Alkali Metals/Fr	■
✗	
0	
0,00	

Total Score (points)	Answer ti
	14,2
	13,1
	1,2
	30
	25
	10,6
	3,3
	21,5
	17
	11,6

	18,9
	2,2
	6,5
	15
	4,3
	1,3
	3,4
	22,4
	8,5
	2,7
	30
	30
	25,6
	1
	1,5
	2,9
	3,4

Noble Gases/Rn
✗
1
17,00
ime (seconds)

Ionizatior
10 Quiz
Correct answers
Players correct (
Question duratic
Answer Sun
Answer options
Is answer correc
Number of answ
Average time tal
Answer Det
Players
Chris
Cole
Hudson
KaHOOt.nINJa
Karlee
Kyle Daniels
Maddie ❄
Mikayla :-)
Mithil
Noah

Parker
Sam Sweetser
Shepard
Tyler the Great
adelle
aidan
aj
braxton
bri
caroline
kAHoOt.nINJa ?
kAHoot.NINjA ?'
kaitlyn
max
netta
reagan
sam

n Energy Trend

When atoms transfer electrons it is called

s	Ionic Bor
(%)	70,37%
on	30 secor

mmary

	▲
ct?	
vers received	
ken to answer (seconds)	

ails

	Answer
	✓
	✓
	✓
??	✗
	✓
	✓
	✓
	✓
	✗
	✓

	☑
	✗
	☑
	☑
	✗
	☑
	☑
	☑
	☑
	☑
'???	✗
???	✗
	☑
	☑
	✗
	☑
	✗

nding
nds

Ionic Bonding	♦
✓	
19	
10,19	

	Score (p
Ionic Bonding	918
Ionic Bonding	1057
Ionic Bonding	1065
	0
Ionic Bonding	1222
Ionic Bonding	837
Ionic Bonding	1003
Ionic Bonding	828
Covalent Bonding	0
Ionic Bonding	960

Ionic Bonding	777
Covalent Bonding	0
Ionic Bonding	1033
Ionic Bonding	1048
Covalent Bonding	0
Ionic Bonding	1475
Ionic Bonding	1068
Ionic Bonding	805
Ionic Bonding	863
Ionic Bonding	1458
	0
	0
Ionic Bonding	1215
Ionic Bonding	730
Covalent Bonding	0
Ionic Bonding	1008
Covalent Bonding	0

Covalent Bonding	●
✗	
5	
3,12	

oints)	Current
	7788
	8144
	8679
	0
	9274
	7640
	10164
	7944
	6058
	9448

	9251
	7102
	8392
	8006
	6100
	12741
	8462
	7618
	5457
	12661
	0
	0
	9505
	4322
	7467
	10341
	4416

Total Score (points)	Answer ti
	10,9
	2,6
	2,1
	30
	16,7
	15,8
	5,8
	16,3
	1,5
	8,4

	19,4
	4,5
	4
	3,1
	2,9
	1,5
	1,9
	17,7
	14,2
	2,5
	30
	30
	17,1
	28,2
	5,3
	5,5
	1,4

ime (seconds)

Question Number
1 Quiz
1 Quiz
1 Quiz
1 Quiz
1 Quiz
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Question
What is first ionization energy?
What is first ionization energy?
What is first ionization energy?
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Which trend is directly proportional to ionization energy?
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What happens when successive ionization energies are measured?
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What happens to the trend moving from left to right across a period?
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What happens to the trend moving from left to right across a period?
How does this trend affect noble gases?
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What happens to the trend moving down in a group?
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How does Coulomb's Law affect this trend?
How does Coulomb's Law affect this trend?

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How does Coulomb's Law affect this trend?
Which group/element has the LARGEST value for this trend?
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Which group/element has the LARGEST value for this trend?
When atoms transfer electrons it is called
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When atoms transfer electrons it is called

Answer 1	Answer 2
energy put into 1 valence electron from the innermost orbital	the energy to remove 1 valence electron from the outermost orbital
energy put into 1 valence electron from the innermost orbital	the energy to remove 1 valence electron from the outermost orbital
energy put into 1 valence electron from the innermost orbital	the energy to remove 1 valence electron from the outermost orbital
energy put into 1 valence electron from the innermost orbital	the energy to remove 1 valence electron from the outermost orbital
energy put into 1 valence electron from the innermost orbital	the energy to remove 1 valence electron from the outermost orbital
energy put into 1 valence electron from the innermost orbital	the energy to remove 1 valence electron from the outermost orbital
energy put into 1 valence electron from the innermost orbital	the energy to remove 1 valence electron from the outermost orbital
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energy put into 1 valence electron from the innermost orbital	the energy to remove 1 valence electron from the outermost orbital
energy put into 1 valence electron from the innermost orbital	the energy to remove 1 valence electron from the outermost orbital
energy put into 1 valence electron from the innermost orbital	the energy to remove 1 valence electron from the outermost orbital
energy put into 1 valence electron from the innermost orbital	the energy to remove 1 valence electron from the outermost orbital
energy put into 1 valence electron from the innermost orbital	the energy to remove 1 valence electron from the outermost orbital
energy put into 1 valence electron from the innermost orbital	the energy to remove 1 valence electron from the outermost orbital
energy put into 1 valence electron from the innermost orbital	the energy to remove 1 valence electron from the outermost orbital

energy put into 1 valence electron from the innermost orbital	the energy to remove 1 valence electron from the outermost orbital
energy put into 1 valence electron from the innermost orbital	the energy to remove 1 valence electron from the outermost orbital
energy put into 1 valence electron from the innermost orbital	the energy to remove 1 valence electron from the outermost orbital
energy put into 1 valence electron from the innermost orbital	the energy to remove 1 valence electron from the outermost orbital
energy put into 1 valence electron from the innermost orbital	the energy to remove 1 valence electron from the outermost orbital
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energy put into 1 valence electron from the innermost orbital	the energy to remove 1 valence electron from the outermost orbital
energy put into 1 valence electron from the innermost orbital	the energy to remove 1 valence electron from the outermost orbital
energy put into 1 valence electron from the innermost orbital	the energy to remove 1 valence electron from the outermost orbital
energy put into 1 valence electron from the innermost orbital	the energy to remove 1 valence electron from the outermost orbital
electronegativity	atomic radius trend
electronegativity	atomic radius trend
electronegativity	atomic radius trend
electronegativity	atomic radius trend

electronegativity	atomic radius trend
electronegativity	atomic radius trend
electronegativity	atomic radius trend
electronegativity	atomic radius trend
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it increases	it stays the same
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it increases	it stays the same
it increases	it stays the same
grams	centimeters
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grams	centimeters
The ionization energy increases when going left to right.	The ionization energy decreases when going left to right.
The ionization energy increases when going left to right.	The ionization energy decreases when going left to right.
The ionization energy increases when going left to right.	The ionization energy decreases when going left to right.

The ionization energy increases when going left to right.	The ionization energy decreases when going left to right.
The ionization energy increases when going left to right.	The ionization energy decreases when going left to right.
The ionization energy increases when going left to right.	The ionization energy decreases when going left to right.
The ionization energy increases when going left to right.	The ionization energy decreases when going left to right.
The ionization energy increases when going left to right.	The ionization energy decreases when going left to right.
The ionization energy increases when going left to right.	The ionization energy decreases when going left to right.
The ionization energy increases when going left to right.	The ionization energy decreases when going left to right.
The ionization energy increases when going left to right.	The ionization energy decreases when going left to right.
The ionization energy increases when going left to right.	The ionization energy decreases when going left to right.
The ionization energy increases when going left to right.	The ionization energy decreases when going left to right.
The ionization energy increases when going left to right.	The ionization energy decreases when going left to right.
The ionization energy increases when going left to right.	The ionization energy decreases when going left to right.
The ionization energy increases when going left to right.	The ionization energy decreases when going left to right.
The ionization energy increases when going left to right.	The ionization energy decreases when going left to right.
The ionization energy increases when going left to right.	The ionization energy decreases when going left to right.
The ionization energy increases when going left to right.	The ionization energy decreases when going left to right.

The ionization energy increases when going left to right.	The ionization energy decreases when going left to right.
The ionization energy increases when going left to right.	The ionization energy decreases when going left to right.
The ionization energy increases when going left to right.	The ionization energy decreases when going left to right.
The ionization energy increases when going left to right.	The ionization energy decreases when going left to right.
The ionization energy increases when going left to right.	The ionization energy decreases when going left to right.
The ionization energy increases when going left to right.	The ionization energy decreases when going left to right.
The ionization energy increases when going left to right.	The ionization energy decreases when going left to right.
The ionization energy increases when going left to right.	The ionization energy decreases when going left to right.
have a low amount of energy	have a high amount of energy
have a low amount of energy	have a high amount of energy
have a low amount of energy	have a high amount of energy
have a low amount of energy	have a high amount of energy
have a low amount of energy	have a high amount of energy
have a low amount of energy	have a high amount of energy
have a low amount of energy	have a high amount of energy
have a low amount of energy	have a high amount of energy

have a low amount of energy	have a high amount of energy
have a low amount of energy	have a high amount of energy
have a low amount of energy	have a high amount of energy
have a low amount of energy	have a high amount of energy
have a low amount of energy	have a high amount of energy
have a low amount of energy	have a high amount of energy
have a low amount of energy	have a high amount of energy
have a low amount of energy	have a high amount of energy
have a low amount of energy	have a high amount of energy
have a low amount of energy	have a high amount of energy
have a low amount of energy	have a high amount of energy
have a low amount of energy	have a high amount of energy
have a low amount of energy	have a high amount of energy
have a low amount of energy	have a high amount of energy
have a low amount of energy	have a high amount of energy
have a low amount of energy	have a high amount of energy
have a low amount of energy	have a high amount of energy

have a low amount of energy	have a high amount of energy
have a low amount of energy	have a high amount of energy
have a low amount of energy	have a high amount of energy
Ionization energy will decrease	Ionization energy will increase
Ionization energy will decrease	Ionization energy will increase
Ionization energy will decrease	Ionization energy will increase
Ionization energy will decrease	Ionization energy will increase
Ionization energy will decrease	Ionization energy will increase
Ionization energy will decrease	Ionization energy will increase
Ionization energy will decrease	Ionization energy will increase
Ionization energy will decrease	Ionization energy will increase
Ionization energy will decrease	Ionization energy will increase
Ionization energy will decrease	Ionization energy will increase
Ionization energy will decrease	Ionization energy will increase
Ionization energy will decrease	Ionization energy will increase
Ionization energy will decrease	Ionization energy will increase
Ionization energy will decrease	Ionization energy will increase

Ionization energy will decrease	Ionization energy will increase
Ionization energy will decrease	Ionization energy will increase
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Ionization energy will decrease	Ionization energy will increase
Ionization energy will decrease	Ionization energy will increase
Ionization energy will decrease	Ionization energy will increase
Ionization energy will decrease	Ionization energy will increase
Ionization energy will decrease	Ionization energy will increase
Ionization energy will decrease	Ionization energy will increase
More orbitals require more IE	Less orbitals require more IE
More orbitals require more IE	Less orbitals require more IE

More orbitals require more IE	Less orbitals require more IE
More orbitals require more IE	Less orbitals require more IE
More orbitals require more IE	Less orbitals require more IE
More orbitals require more IE	Less orbitals require more IE
More orbitals require more IE	Less orbitals require more IE
More orbitals require more IE	Less orbitals require more IE
More orbitals require more IE	Less orbitals require more IE
More orbitals require more IE	Less orbitals require more IE
More orbitals require more IE	Less orbitals require more IE
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More orbitals require more IE	Less orbitals require more IE
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More orbitals require more IE	Less orbitals require more IE
More orbitals require more IE	Less orbitals require more IE
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More orbitals require more IE	Less orbitals require more IE
More orbitals require more IE	Less orbitals require more IE
More orbitals require more IE	Less orbitals require more IE
More orbitals require more IE	Less orbitals require more IE
More orbitals require more IE	Less orbitals require more IE
Alkali Metals/H	Noble Gases/He
Alkali Metals/H	Noble Gases/He
Alkali Metals/H	Noble Gases/He
Alkali Metals/H	Noble Gases/He
Alkali Metals/H	Noble Gases/He
Alkali Metals/H	Noble Gases/He
Alkali Metals/H	Noble Gases/He

Alkali Metals/H	Noble Gases/He
Alkali Metals/H	Noble Gases/He
Alkali Metals/H	Noble Gases/He
Alkali Metals/H	Noble Gases/He
Alkali Metals/H	Noble Gases/He
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Alkali Metals/H	Noble Gases/He
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Alkali Metals/H	Noble Gases/He
Alkali Metals/H	Noble Gases/He
Alkali Metals/H	Noble Gases/He
Alkali Metals/H	Noble Gases/He
Ionic Bonding	Covalent Bonding
Ionic Bonding	Covalent Bonding
Ionic Bonding	Covalent Bonding
Ionic Bonding	Covalent Bonding
Ionic Bonding	Covalent Bonding
Ionic Bonding	Covalent Bonding
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Ionic Bonding	Covalent Bonding
Ionic Bonding	Covalent Bonding

Answer 3	Answer 4

ionic radius trend	metallic properties
ionic radius trend	metallic properties
ionic radius trend	metallic properties
ionic radius trend	metallic properties

ionic radius trend	metallic properties
ionic radius trend	metallic properties
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ionic radius trend	metallic properties
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ionic radius trend	metallic properties
ionic radius trend	metallic properties
ionic radius trend	metallic properties
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in kilojoules per mole	milliliters
in kilojoules per mole	milliliters
in kilojoules per mole	milliliters
in kilojoules per mole	milliliters
in kilojoules per mole	milliliters
in kilojoules per mole	milliliters
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The ionization energy stays the same when going left to right.	All of the above
The ionization energy stays the same when going left to right.	All of the above
The ionization energy stays the same when going left to right.	All of the above

The ionization energy stays the same when going left to right.	All of the above
The ionization energy stays the same when going left to right.	All of the above
The ionization energy stays the same when going left to right.	All of the above
The ionization energy stays the same when going left to right.	All of the above
The ionization energy stays the same when going left to right.	All of the above
The ionization energy stays the same when going left to right.	All of the above
The ionization energy stays the same when going left to right.	All of the above
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The ionization energy stays the same when going left to right.	All of the above
The ionization energy stays the same when going left to right.	All of the above
The ionization energy stays the same when going left to right.	All of the above
The ionization energy stays the same when going left to right.	All of the above
The ionization energy stays the same when going left to right.	All of the above
The ionization energy stays the same when going left to right.	All of the above
The ionization energy stays the same when going left to right.	All of the above
The ionization energy stays the same when going left to right.	All of the above

The ionization energy stays the same when going left to right.	All of the above
The ionization energy stays the same when going left to right.	All of the above
The ionization energy stays the same when going left to right.	All of the above
The ionization energy stays the same when going left to right.	All of the above
The ionization energy stays the same when going left to right.	All of the above
The ionization energy stays the same when going left to right.	All of the above
The ionization energy stays the same when going left to right.	All of the above
The ionization energy stays the same when going left to right.	All of the above
have a neutral amount of energy	have a positive amount of energy
have a neutral amount of energy	have a positive amount of energy
have a neutral amount of energy	have a positive amount of energy
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have a neutral amount of energy	have a positive amount of energy
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have a neutral amount of energy	have a positive amount of energy
have a neutral amount of energy	have a positive amount of energy

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have a neutral amount of energy	have a positive amount of energy

have a neutral amount of energy	have a positive amount of energy
have a neutral amount of energy	have a positive amount of energy
have a neutral amount of energy	have a positive amount of energy

# orbitals does not relate to IE	
# orbitals does not relate to IE	

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Alkali Metals/Fr	Noble Gases/Rn
Alkali Metals/Fr	Noble Gases/Rn
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Alkali Metals/Fr	Noble Gases/Rn
Alkali Metals/Fr	Noble Gases/Rn
Alkali Metals/Fr	Noble Gases/Rn
Alkali Metals/Fr	Noble Gases/Rn

Alkali Metals/Fr	Noble Gases/Rn
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Alkali Metals/Fr	Noble Gases/Rn
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Alkali Metals/Fr	Noble Gases/Rn
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Alkali Metals/Fr	Noble Gases/Rn

Alkali Metals/Fr	Noble Gases/Rn
Alkali Metals/Fr	Noble Gases/Rn
Alkali Metals/Fr	Noble Gases/Rn
Alkali Metals/Fr	Noble Gases/Rn

Correct Answers	Time Allotted to Answer (seconds)
the energy to remove 1 valence electron from the outermost orbital	30
the energy to remove 1 valence electron from the outermost orbital	30
the energy to remove 1 valence electron from the outermost orbital	30
the energy to remove 1 valence electron from the outermost orbital	30
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the energy to remove 1 valence electron from the outermost orbital	30
the energy to remove 1 valence electron from the outermost orbital	30
the energy to remove 1 valence electron from the outermost orbital	30
electronegativity	30
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electronegativity	30

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in kilojoules per mole	30
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The ionization energy increases when going left to right.	30
The ionization energy increases when going left to right.	30
The ionization energy increases when going left to right.	30

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Ionization energy will decrease	30
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Less orbitals require more IE	30
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Noble Gases/He	30
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Ionic Bonding	30
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Players
Chris
Cole
Hudson
KaHOOt.nINJa ??
Karlee
Kyle Daniels
Maddie ❄
Mikayla :-)
Mithil
Noah
Parker
Sam Sweetser
Shepard
Tyler the Great
adelle

aidan
aj
braxton
bri
caroline
kAHoOt.nINJa ????
kAHoot.NINjA ????
kaitlyn
max
netta
reagan
sam
Chris
Cole
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KaHOOt.nINJa ??

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kAHoot.NINjA ????
kaitlyn
max
netta
reagan
sam

Answer	Correct / Incorrect	Correct
	Incorrect	0
the energy to remove 1 valence electron from the outermost orbital	Correct	1
the energy to remove 1 valence electron from the outermost orbital	Correct	1
	Incorrect	0
the energy to remove 1 valence electron from the outermost orbital	Correct	1
the energy to remove 1 valence electron from the outermost orbital	Correct	1
the energy to remove 1 valence electron from the outermost orbital	Correct	1
the energy to remove 1 valence electron from the outermost orbital	Correct	1
the energy to remove 1 valence electron from the outermost orbital	Correct	1
the energy to remove 1 valence electron from the outermost orbital	Correct	1
the energy to remove 1 valence electron from the outermost orbital	Correct	1
the energy to remove 1 valence electron from the outermost orbital	Correct	1
the energy to remove 1 valence electron from the outermost orbital	Correct	1
the energy to remove 1 valence electron from the outermost orbital	Correct	1
energy put into 1 valence electron from the innermost orbital	Incorrect	0

the energy to remove 1 valence electron from the outermost orbital	Correct	1
the energy to remove 1 valence electron from the outermost orbital	Correct	1
the energy to remove 1 valence electron from the outermost orbital	Correct	1
energy put into 1 valence electron from the innermost orbital	Incorrect	0
the energy to remove 1 valence electron from the outermost orbital	Correct	1
	Incorrect	0
	Incorrect	0
the energy to remove 1 valence electron from the outermost orbital	Correct	1
	Incorrect	0
the energy to remove 1 valence electron from the outermost orbital	Correct	1
the energy to remove 1 valence electron from the outermost orbital	Correct	1
	Incorrect	0
electronegativity	Correct	1
ionic radius trend	Incorrect	0
metallic properties	Incorrect	0
	Incorrect	0

atomic radius trend	Incorrect	0
atomic radius trend	Incorrect	0
electronegativity	Correct	1
ionic radius trend	Incorrect	0
atomic radius trend	Incorrect	0
electronegativity	Correct	1
electronegativity	Correct	1
atomic radius trend	Incorrect	0
atomic radius trend	Incorrect	0
atomic radius trend	Incorrect	0
atomic radius trend	Incorrect	0
electronegativity	Correct	1
metallic properties	Incorrect	0
ionic radius trend	Incorrect	0
electronegativity	Correct	1
electronegativity	Correct	1

	Incorrect	0
	Incorrect	0
atomic radius trend	Incorrect	0
atomic radius trend	Incorrect	0
ionic radius trend	Incorrect	0
electronegativity	Correct	1
atomic radius trend	Incorrect	0
it increases	Correct	1
it increases	Correct	1
it increases	Correct	1
	Incorrect	0
it increases	Correct	1
it increases	Correct	1
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it increases	Correct	1
it increases	Correct	1
it increases	Correct	1
	Incorrect	0
	Incorrect	0
it increases	Correct	1
it increases	Correct	1
it increases	Correct	1

it increases	Correct	1
it increases	Correct	1
in kilojoules per mole	Correct	1
in kilojoules per mole	Correct	1
in kilojoules per mole	Correct	1
	Incorrect	0
in kilojoules per mole	Correct	1
in kilojoules per mole	Correct	1
in kilojoules per mole	Correct	1
in kilojoules per mole	Correct	1
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in kilojoules per mole	Correct	1
	Incorrect	0
	Incorrect	0
in kilojoules per mole	Correct	1
in kilojoules per mole	Correct	1
in kilojoules per mole	Correct	1
in kilojoules per mole	Correct	1
in kilojoules per mole	Correct	1
The ionization energy increases when going left to right.	Correct	1
The ionization energy increases when going left to right.	Correct	1
The ionization energy increases when going left to right.	Correct	1

	Incorrect	0
The ionization energy increases when going left to right.	Correct	1
The ionization energy increases when going left to right.	Correct	1
The ionization energy increases when going left to right.	Correct	1
The ionization energy increases when going left to right.	Correct	1
The ionization energy decreases when going left to right.	Incorrect	0
The ionization energy increases when going left to right.	Correct	1
The ionization energy increases when going left to right.	Correct	1
The ionization energy increases when going left to right.	Correct	1
The ionization energy increases when going left to right.	Correct	1
The ionization energy increases when going left to right.	Correct	1
The ionization energy increases when going left to right.	Correct	1
The ionization energy increases when going left to right.	Correct	1
The ionization energy increases when going left to right.	Correct	1
The ionization energy increases when going left to right.	Correct	1
The ionization energy increases when going left to right.	Correct	1

The ionization energy increases when going left to right.	Correct	1
	Incorrect	0
	Incorrect	0
The ionization energy increases when going left to right.	Correct	1
	Incorrect	0
The ionization energy increases when going left to right.	Correct	1
The ionization energy increases when going left to right.	Correct	1
All of the above	Incorrect	0
have a high amount of energy	Correct	1
have a high amount of energy	Correct	1
have a high amount of energy	Correct	1
	Incorrect	0
have a high amount of energy	Correct	1
have a high amount of energy	Correct	1
have a high amount of energy	Correct	1
have a high amount of energy	Correct	1

have a high amount of energy	Correct	1
have a high amount of energy	Correct	1
have a high amount of energy	Correct	1
have a high amount of energy	Correct	1
have a high amount of energy	Correct	1
have a high amount of energy	Correct	1
have a high amount of energy	Correct	1
have a high amount of energy	Correct	1
have a high amount of energy	Correct	1
have a high amount of energy	Correct	1
have a high amount of energy	Correct	1
have a positive amount of energy	Incorrect	0
have a high amount of energy	Correct	1
	Incorrect	0
	Incorrect	0
have a high amount of energy	Correct	1
have a neutral amount of energy	Incorrect	0

have a high amount of energy	Correct	1
have a high amount of energy	Correct	1
have a high amount of energy	Correct	1
Ionization energy will decrease	Correct	1
Ionization energy will decrease	Correct	1
Ionization energy will decrease	Correct	1
	Incorrect	0
Ionization energy will decrease	Correct	1
Ionization energy will decrease	Correct	1
Ionization energy will decrease	Correct	1
Ionization energy will decrease	Correct	1
Ionization energy will decrease	Correct	1
Ionization energy will decrease	Correct	1
Ionization energy will decrease	Correct	1
Ionization energy will decrease	Correct	1
Ionization energy will decrease	Correct	1

Ionization energy will decrease	Correct	1
Ionization energy will decrease	Correct	1
Ionization energy will decrease	Correct	1
Ionization energy will decrease	Correct	1
Ionization energy will decrease	Correct	1
Ionization energy will increase	Incorrect	0
Ionization energy will decrease	Correct	1
	Incorrect	0
	Incorrect	0
Ionization energy will decrease	Correct	1
Ionization energy will increase	Incorrect	0
Ionization energy will decrease	Correct	1
Ionization energy will decrease	Correct	1
Ionization energy will decrease	Correct	1
More orbitals require more IE	Incorrect	0
More orbitals require more IE	Incorrect	0

More orbitals require more IE	Incorrect	0
	Incorrect	0
Less orbitals require more IE	Correct	1
More orbitals require more IE	Incorrect	0
More orbitals require more IE	Incorrect	0
More orbitals require more IE	Incorrect	0
Less orbitals require more IE	Correct	1
More orbitals require more IE	Incorrect	0
# orbitals does not relate to IE	Incorrect	0
More orbitals require more IE	Incorrect	0
More orbitals require more IE	Incorrect	0
More orbitals require more IE	Incorrect	0
More orbitals require more IE	Incorrect	0
Less orbitals require more IE	Correct	1
More orbitals require more IE	Incorrect	0
More orbitals require more IE	Incorrect	0

More orbitals require more IE	Incorrect	0
Less orbitals require more IE	Correct	1
	Incorrect	0
	Incorrect	0
Less orbitals require more IE	Correct	1
Less orbitals require more IE	Correct	1
More orbitals require more IE	Incorrect	0
More orbitals require more IE	Incorrect	0
# orbitals does not relate to IE	Incorrect	0
Noble Gases/He	Correct	1
Noble Gases/He	Correct	1
Noble Gases/He	Correct	1
	Incorrect	0
Noble Gases/He	Correct	1
Noble Gases/He	Correct	1
Noble Gases/He	Correct	1

Noble Gases/He	Correct	1
Noble Gases/Rn	Incorrect	0
Noble Gases/He	Correct	1
Noble Gases/He	Correct	1
Noble Gases/He	Correct	1
Noble Gases/He	Correct	1
Noble Gases/He	Correct	1
Noble Gases/He	Correct	1
Noble Gases/He	Correct	1
Noble Gases/He	Correct	1
Noble Gases/He	Correct	1
Noble Gases/He	Correct	1
Noble Gases/He	Correct	1
Noble Gases/He	Correct	1
	Incorrect	0
	Incorrect	0
Noble Gases/He	Correct	1

Noble Gases/He	Correct	1
Noble Gases/He	Correct	1
Noble Gases/He	Correct	1
Noble Gases/He	Correct	1
Ionic Bonding	Correct	1
Ionic Bonding	Correct	1
Ionic Bonding	Correct	1
	Incorrect	0
Ionic Bonding	Correct	1
Ionic Bonding	Correct	1
Ionic Bonding	Correct	1
Ionic Bonding	Correct	1
Covalent Bonding	Incorrect	0
Ionic Bonding	Correct	1
Ionic Bonding	Correct	1
Covalent Bonding	Incorrect	0

Ionic Bonding	Correct	1
Ionic Bonding	Correct	1
Covalent Bonding	Incorrect	0
Ionic Bonding	Correct	1
Ionic Bonding	Correct	1
Ionic Bonding	Correct	1
Ionic Bonding	Correct	1
Ionic Bonding	Correct	1
	Incorrect	0
	Incorrect	0
Ionic Bonding	Correct	1
Ionic Bonding	Correct	1
Covalent Bonding	Incorrect	0
Ionic Bonding	Correct	1
Covalent Bonding	Incorrect	0

Incorrect	Score (points)	Score without Answer Streak Bonus (points)
1	0	0
0	857	857
0	937	937
1	0	0
0	823	823
0	755	755
0	893	893
0	880	880
0	960	960
0	720	720
0	945	945
0	750	750
0	922	922
0	925	925
1	0	0

0	940	940
0	747	747
0	868	868
1	0	0
0	918	918
1	0	0
1	0	0
0	778	778
1	0	0
0	948	948
0	852	852
1	0	0
0	697	697
1	0	0
1	0	0
1	0	0

1	0	0
1	0	0
0	930	830
1	0	0
1	0	0
0	817	717
0	650	550
1	0	0
1	0	0
1	0	0
1	0	0
0	1018	918
1	0	0
1	0	0
0	563	563
0	1005	905

1	0	0
1	0	0
1	0	0
1	0	0
1	0	0
0	962	862
1	0	0
0	915	815
0	883	883
0	972	972
1	0	0
0	872	872
0	917	917
0	1070	870
0	953	953
0	903	903

0	1033	833
0	963	763
0	868	868
0	910	910
0	803	803
0	880	880
0	1048	848
0	933	933
0	893	893
0	1065	965
0	1155	955
1	0	0
1	0	0
0	907	907
0	547	547
0	905	905

0	1090	890
0	730	730
0	925	725
0	1023	923
0	1040	940
1	0	0
0	965	865
0	967	867
0	1263	963
0	1045	945
0	1078	978
0	1228	928
0	1257	957
0	1037	937
0	1068	968
0	968	868

0	1055	955
0	1265	965
0	1058	958
0	1000	900
0	1043	843
0	1262	962
1	0	0
1	0	0
0	1015	915
0	985	885
0	1075	975
0	1277	977
0	1007	907
0	1087	787
0	1065	865
0	1067	867

1	0	0
0	887	687
0	975	775
0	1228	828
0	1113	913
1	0	0
0	1248	848
0	1177	777
0	1033	833
0	1047	847
0	1010	810
0	995	795
0	1278	878
0	1135	935
0	1012	812
0	1065	765

0	1265	865
1	0	0
1	0	0
0	990	790
1	0	0
0	1100	900
0	1305	905
1	0	0
0	1123	723
0	1192	892
0	1250	950
1	0	0
0	1135	835
0	1113	813
0	1380	880
0	1120	820

0	967	967
0	1263	763
0	1375	875
0	1158	858
0	1190	890
0	1182	882
0	1005	705
0	1452	952
0	1218	918
0	1130	830
1	0	0
0	1440	940
1	0	0
1	0	0
0	1162	862
1	0	0

0	1122	822
0	1422	922
0	828	828
0	1360	860
0	1285	885
0	1368	968
1	0	0
0	1250	850
0	1253	853
0	1452	952
0	1363	963
0	998	898
0	1372	872
0	1422	922
0	1293	893
0	1330	930

0	1320	920
0	1237	837
0	1420	920
0	1360	960
0	1283	883
1	0	0
0	1388	888
1	0	0
1	0	0
0	1235	835
1	0	0
0	1342	942
0	1473	973
0	908	808
1	0	0
1	0	0

1	0	0
1	0	0
0	1037	537
1	0	0
1	0	0
1	0	0
0	1152	952
1	0	0
1	0	0
1	0	0
1	0	0
1	0	0
1	0	0
0	1367	867
1	0	0
1	0	0

1	0	0
0	1315	815
1	0	0
1	0	0
0	1130	630
0	977	977
1	0	0
1	0	0
1	0	0
0	763	763
0	782	782
0	980	980
1	0	0
0	1083	583
0	823	823
0	945	945

0	642	642
1	0	0
0	807	807
0	685	685
0	963	963
0	892	892
0	750	750
0	928	928
0	1478	978
0	943	943
0	627	627
0	858	858
0	1455	955
1	0	0
1	0	0
0	1073	573

0	1083	983
0	975	975
0	952	952
0	943	943
0	918	818
0	1057	957
0	1065	965
1	0	0
0	1222	722
0	837	737
0	1003	903
0	828	728
1	0	0
0	960	860
0	777	677
1	0	0

0	1033	933
0	1048	948
1	0	0
0	1475	975
0	1068	968
0	805	705
0	863	763
0	1458	958
1	0	0
1	0	0
0	1215	715
0	730	530
1	0	0
0	1008	908
1	0	0

Current Total Score (points)	Answer Time (%)
0	100.00%
857	28.67%
937	12.67%
0	100.00%
823	35.33%
755	49.00%
893	21.33%
880	24.00%
960	8.00%
720	56.00%
945	11.00%
750	50.00%
922	15.67%
925	15.00%
0	26.00%

940	12.00%
747	50.67%
868	26.33%
0	22.00%
918	16.33%
0	100.00%
0	100.00%
778	44.33%
0	100.00%
948	10.33%
852	29.67%
0	100.00%
697	60.67%
857	92.67%
937	46.33%
0	100.00%

823	93.67%
755	55.33%
1823	34.00%
880	77.33%
960	12.33%
1537	56.67%
1595	90.00%
750	84.33%
922	66.33%
925	22.67%
0	43.67%
1958	16.33%
747	40.33%
868	93.00%
563	87.33%
1923	19.00%

0	100.00%
0	100.00%
778	85.67%
0	47.00%
948	36.00%
1814	27.67%
0	37.33%
1612	37.00%
1740	23.33%
1909	5.67%
0	100.00%
1695	25.67%
1672	16.67%
2893	26.00%
1833	9.33%
1863	19.33%

2570	33.33%
2558	47.33%
1618	26.33%
1832	18.00%
1728	39.33%
880	24.00%
3006	30.33%
1680	13.33%
1761	21.33%
1628	7.00%
3078	9.00%
0	100.00%
0	100.00%
1685	18.67%
547	90.67%
1853	19.00%

2904	22.00%
730	54.00%
2537	55.00%
2763	15.33%
2949	12.00%
0	100.00%
2660	27.00%
2639	26.67%
4156	7.33%
2878	11.00%
2941	4.33%
3798	14.33%
3815	8.67%
2655	12.67%
2900	6.33%
2696	26.33%

1935	9.00%
4271	7.00%
2738	8.33%
2761	20.00%
2671	31.33%
4340	7.67%
0	100.00%
0	100.00%
2700	17.00%
1532	23.00%
2928	5.00%
4181	4.67%
1737	18.67%
3624	42.67%
3828	27.00%
4016	26.67%

0	100.00%
3547	62.67%
3614	45.00%
5384	34.33%
3991	17.33%
2941	37.33%
5046	30.33%
4992	44.67%
3688	33.33%
3947	30.67%
3706	38.00%
2930	41.00%
5549	24.33%
3873	13.00%
3773	37.67%
3736	47.00%

5605	27.00%
0	100.00%
0	100.00%
3690	42.00%
1532	100.00%
4028	20.00%
5486	19.00%
1737	11.33%
4747	55.33%
5020	21.67%
5266	10.00%
0	100.00%
4682	33.00%
4727	37.33%
6764	24.00%
5111	36.00%

3908	6.67%
6309	47.33%
6367	25.00%
4846	28.33%
5137	22.00%
4888	23.67%
3935	59.00%
7001	9.67%
5091	16.33%
4903	34.00%
3736	17.33%
7045	12.00%
0	100.00%
0	100.00%
4852	27.67%
1532	18.67%

5150	35.67%
6908	15.67%
2565	34.33%
6107	28.00%
6305	23.00%
6634	6.33%
0	100.00%
5932	30.00%
5980	29.33%
8216	9.67%
6474	7.33%
4906	20.33%
7681	25.67%
7789	15.67%
6139	21.33%
6467	14.00%

6208	16.00%
5172	32.67%
8421	16.00%
6451	8.00%
6186	23.33%
3736	27.33%
8433	22.33%
0	100.00%
0	100.00%
6087	33.00%
1532	38.67%
6492	11.67%
8381	5.33%
3473	38.33%
6107	59.33%
6305	66.33%

6634	10.00%
0	100.00%
6969	92.67%
5980	78.67%
8216	48.33%
6474	80.00%
6058	9.67%
7681	51.33%
7789	63.67%
6139	40.00%
6467	39.00%
6208	15.67%
5172	61.67%
9788	26.67%
6451	38.33%
6186	89.67%

3736	63.33%
9748	37.00%
0	100.00%
0	100.00%
7217	74.00%
2509	4.67%
6492	26.00%
8381	43.33%
3473	47.33%
6870	47.33%
7087	43.67%
7614	4.00%
0	100.00%
8052	83.33%
6803	35.33%
9161	11.00%

7116	71.67%
6058	56.67%
8488	38.67%
8474	63.00%
7102	7.33%
7359	21.67%
6958	50.00%
6100	14.33%
11266	4.33%
7394	11.33%
6813	74.67%
4594	28.33%
11203	9.00%
0	100.00%
0	100.00%
8290	85.33%

3592	3.33%
7467	5.00%
9333	9.67%
4416	11.33%
7788	36.33%
8144	8.67%
8679	7.00%
0	100.00%
9274	55.67%
7640	52.67%
10164	19.33%
7944	54.33%
6058	5.00%
9448	28.00%
9251	64.67%
7102	15.00%

8392	13.33%
8006	10.33%
6100	9.67%
12741	5.00%
8462	6.33%
7618	59.00%
5457	47.33%
12661	8.33%
0	100.00%
0	100.00%
9505	57.00%
4322	94.00%
7467	17.67%
10341	18.33%
4416	4.67%

Answer Time (seconds)
30
8,6
3,8
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10,6
14,7
6,4
7,2
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16,8
3,3
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4,7
4,5
7,8

3,6
15,2
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4,9
30
30
13,3
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3,1
8,9
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18,2
27,8
13,9
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23,2
3,7
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27
25,3
19,9
6,8
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12,1
27,9
26,2
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30
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25,7
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8,3
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7,8
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5,8

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14,2
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