Sample Test 8

Timed question **[100 Points]**: Solve this Aristocrat which is a quote by Stephen Hawking. When you have solved it, raise your hand so that the time can be recorded and the solution checked.

```
DH HUWC HFKRO VTQ YAO U RCTQO OKGH, UIE KI OCUO OKGH
WE EACH EXIST FOR BUT A SHORT TIME, AND IN THAT TIME
```

```
HFMXTQH YAO U RGUXX MUQO TV OCH DCTXH AIKPHQRH.
EXPLORE BUT A SMALL PART OF THE WHOLE UNIVERSE.
```

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z
Frequency	3		5	2	1	2	3	11	3		5		2		10	1	5	4		5	7	2	1	4	2	
Replacement	U	Z	H	W	D	X	M	E	N	Q	I	J	P	Y	T	V	R	S	K	O	A	F	C	L	B	G

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1) **[250 Points]** Solve this K1 key encoded Patristocrat which is a quote by Henry Van Dyke and ends with **HIGHER**.

```
HINON KYGUW JHKNO GVPKH KWLHI GLVNO NUDHW YHGLM
THERE ISALO FTIER AMBIT IONTH ANMER ELYTO STAND

IKRIK LHINB WOUMK HKYHW YHWWF MWBLG LMUKJ HVGLT
HIGHI NTHEW ORLDI TISTO STOOP DOWNA NDLIF TMANK

KLMGU KHHUN IKRIN O
INDAL ITTLE HIGHE R
```

K1	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z
Frequency		2		1		1	7	13	7	2	12	8	5	8	5	1		2		1	6	3	8		4	
Replacement	V	W	X	Y	Z	P	A	T	H	F	I	N	D	E	R	B	C	G	J	K	L	M	O	Q	S	U

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2) **[120 Points]** Solve this Aristocrat which is a quote by Galileo Galilei.

```
ZGK HJI'L LMJHX JIZWGRZ JIZLXQIF, GIUZ NJYM LXMN
YOU CAN'T TEACH ANYBODY ANYTHING, ONLY MAKE THEM

VMJUQCM LXM JIDOMVD JVM JUVMJRZ QIDQRM LXMN.
REALIZE THE ANSWERS ARE ALREADY INSIDE THEM.
```

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z
Frequency		1	3		1	3	2	7	10	1	6	11	3	1		4	3			3	4	1	5	1	6	
Replacement	V	P	Z	S	X	G	O	C	N	A	U	T	E	M	W	J	I	D	Q	F	L	R	B	H	K	Y

3) **[75 Points]** The following symbols encodes a phrase using a Baconian alphabet. What does it say?

The Big Bang Explained: somebody told God a great joke when God had a mouthful of milk.

Note that characters with the horizontal line added are **B** while the regular characters are **A**.

```
THINKTHINKTHINKTHINKTHINKTHINKTHINKTHINKTHINKTHINKTHINK
BAABAAABBBAABAAAAABABAAAABBAAAAABAAAAABBAAAABBAAABAA
   T    H    E    B    I    G    B    A    N    G    E
THINKTHINKTHINKTHINKTHINKTHINKTHINKTHINKTHINKTHINKTHINK
BABABABBBAABABAAAAABAAAABBAAAABAAAAABBBAAABABBABABABB
   X    P    L    A    I    N    E    D    S    O    M
THINKTHINKTHINKTHINKTHINKTHINKTHINKTHINKTHINKTHINKTHINK
AABAAAAABABBABAAABBBABBABAABAABBABABABAAAABBAABBAABBAB
   E    B    O    D    Y    T    O    L    D    G    O
THINKTHINKTHINKTHINKTHINKTHINKTHINKTHINKTHINKTHINKTHINK
AAABBAAAAAABBABAAAAABAAAAAABAABAABAAAABBABABAABAABAA
   D    A    G    R    E    A    T    J    O    K    E
THINKTHINKTHINKTHINKTHINKTHINKTHINKTHINKTHINKTHINKTHINK
BABAAAABBBAABAAABBAAAABBAABBABAAABBAABBBAAAAAAAABBAAAAA
   W    H    E    N    G    O    D    H    A    D    A
THINKTHINKTHINKTHINKTHINKTHINKTHINKTHINKTHINKTHINKTHINK
ABABBABBABBAABBBAABAAABBAABABBAABBABABAABBABAABABABABB
   M    O    U    T    H    F    U    L    O    F    M
THINKTHINKTHINK
ABAAAABABAABAAB
   I    L    K
```

4) **[125 Points]** The following symbols encodes a phrase using a Baconian alphabet. What does it say?

If you have a difficult task, give it to a lazy person; they will find an easier way to do it.

Note that **/** corresponds to **A** and **** to **B**.

/\//////\/\\/\\/\\/\\/\\/\\//////\/\\/\/////////\\/
ABAAAAABABBABBAABBABBAABBAABBBAAAAABAABBAABAAAAAAAABBA
  I   F   Y   O   U   H   A   V   E   A   D

\/////\/\/\/\\/\\//////\/\/\\/\/\/\/\\/\/\//////\///\
BAAAAABABAABABABAAAAABABAABBABABABAABABAABAAAAABAAABAB
I   F   F   I   C   U   L   T   T   A   S

/\/\//\\///\//\/\\///\///\///\/\/\/\\/\//////\/\/////
AABAABBAABAAABAABBAABAAABAAABAABABAABAABBABAAAAABABAAAA
K G I V E I T T O A L A

//\/\\\\/\\/\\/////\/\/\///\/\/\\/\\/\\/\//\//\\\//\/
AABABBBBABBAABBBAAABAABAAAABAAABABBABABBAABAABAAABBBAABA
Z Y P E R S O N T H E

/\/\\/\/\//\/\\//\/\/\\/\//\\/\/////\//////\\/////\\//
ABABBABABAAABAAAABABAABABAAABABABAAABBAAAAABBAAAAAABBAA
Y W I L L F I N D A N

//\/////\//\/\/////\/\///\//\//////\/\\/\//\//\\/\/\/
AABAAAAAAABAAABABAAAAABAABAAAABABAAAAAABABBABAABAABBABA
E A S I E R W A Y T O

//\\/\\\/\/\//\//\/
AABBABBABABAAABAABA
D O I T

5) **[120 Points]** The following headlines appeared in the newspaper but in reality, they are a Baconian encoded message where some letters encode as one character and the others as another in a pattern. You know that the message starts out as **BE BRAVE**. What does the message decode to?

Be brave enough to live life creatively. The creative place where no one else has ever been.

Based on the first 7 words, you know the following mapping of the alphabets to A and B

A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z
A		A	A	B			B	A			A	B	B		B		A	A	A				A		

Looking at the list, you see a logical pattern of four of each letter alternating. Filling it in gives you:

A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z
A	A	A	A	B	B	B	B	A	A	A	A	B	B	B	B	A	A	A	A	B	B	B	B	A	A

Arise alert, catch early daily plane.
AAAAB AABAA, AAAAB BAAAA AAAAA BAABB.
  B   E   B   R   A   V

Admit story, shock those prime crowd, argue grand route,
AABAA AABAA, ABBAA ABBAB BAABB AABBA, AABBB BAABA ABBAB,
  E   E   N   O   U   G   H   T   O

thank lucky video story after child dance stock drama.
ABABA ABAAA BAABB AABAA ABABA ABAAA AABAB AABAA AAABA.
  L   I   V   E   L   I   F   E   C

Visit stuck track, grant local video.
BAAAA AABAA AAAAA BAABA ABAAA BAABB.
  R   E   A   T   I   V

Treat china paper fiber sleep dress.
AABAA ABABA BABBA BAABA AABBB AABAA.
  E   L   Y   T   H   E

Laser glass links track fiber coast.
AAABA BAAAA AABAA AAAAA BAABA ABAAA.
  C   R   E   A   T   I

Olive treat yummy.
BAABB AABAA ABBBA.
  V   E   P

Quiet black drama story great stuff.
ABABA AAAAA AAABA AABAA BABAA AABBB.
  L   A   C   E   W   H

Ideal party dress shock youth sense, angry adult break
AABAA BAAAA AABAA ABBAA ABBAB ABBAB, ABBAA AABAA AABAA

Sample Test 8

```
   E    R    E    N    O    O    N    E    E
china plate, klutz laugh.
   L    S    E    H
ABABA BAAAB, AABAA AABBB.
Track prize cross prime truck.
AAAAA BAAAB AABAA BAABB AABAA.
   A    S    E    V    E
Xrays claim civil story topic.
BAAAA AAAAB AABAA AABAA ABBAA.
   R    B    E    E    N
```

6) **[120 Points]** The following headlines appeared in the newspaper but in reality, they are a Baconian encoded message where some letters encode as one character and the others as another in a pattern. You know that the message starts out as **NO AMOU**. What does the message decode to?

No amount of experimentation can ever prove me right; a single experiment can prove me wrong.

A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z
A		A	B	B		A	A		B	B	A	A		B		B	A	A				B			

Looking at the list, you see a logical pattern of four of each letter alternating. Filling it in gives you:

A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z
A	A	A	B	B	B	A	A	A	B	B	B	A	A	A	B	B	B	A	A	A	B	B	B	A	A

```
Texas  trend  might  spark  clear  water  arena.
ABBAA  ABBAB  AAAAA  ABABB  ABBAB  BAABB  ABBAA.
  N      O      A      M      O      U      N

Women  speak  their  topic,  force  opera  guest  visit  urban
BAABA  ABBAB  AABAB  AABAA,  BABAB  ABBBA  AABAA  BAAAA  ABAAA
  T      O      F      E       X      P      E      R      I

crowd.
ABABB.
  M

Guest  media  links  itchy  quilt  being  ideal  clean  money
AABAA  ABBAA  BAABA  AAAAA  BAABA  ABAAA  ABBAB  ABBAA
  E      N      T      A      T      I      O      N

chain.
AAABA.
  C

Clean  today  while  agent  focus  green  light,
AAAAA  ABBAA  AABAA  BAABB  AABAA  BAAAA  ABBBA,
  A      N      E      V      E      R      P

allow  panel  input  after.
BAAAA  ABBAB  BAABB  AABAA.
  R      O      V      E

March  pitch  grass  badly.
ABABB  AABAA  BAAAA  ABAAA.
  M      E      R      I

Agree  janet  among  final  bench  split.
AABBA  AABBB  BAABA  AAAAA  BAAAB  ABAAA.
  G      H      T      A      S      I
```

Zappy zebra guess sixty.

ABBAA AABBA ABABA AABAA.
  N   G   L   E

Judge needs ocean visit, bench broke.

AABAA BABAB ABBBA AABAA, BAAAA ABAAA.
  E   X   P   E   R   I

Birch cream daily shift human teeth.

ABABB AABAA ABBAA BAABA AAABA AAAAA.
  M   E   N   T   C   A

Apply pitch below layer.

ABBAA ABBBA BAAAA ABBAB.
  N   P   R   O

Guest award ocean radio which allow great taxes.

BAABB AABAA ABABB AABAA BABAA BAAAA ABBAB ABBAA AABBA.
  V   E   M   E   W   R   O   N   G