

Puzzle Battle Round

Absolute Value

Fall 2022 Tournament

Solutions

Team name: _____

Names of team members: _____

Put all answers in the following spaces. Guessing is not penalized. Work or answers written on other pages will not be graded. Submit only this page. Do not flip to the following pages until told to by your proctor.

1: _____

2: _____

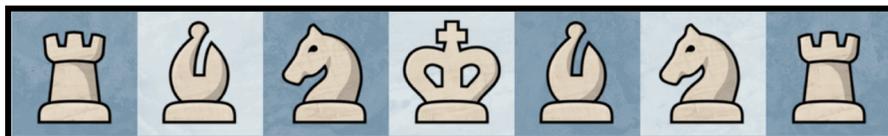
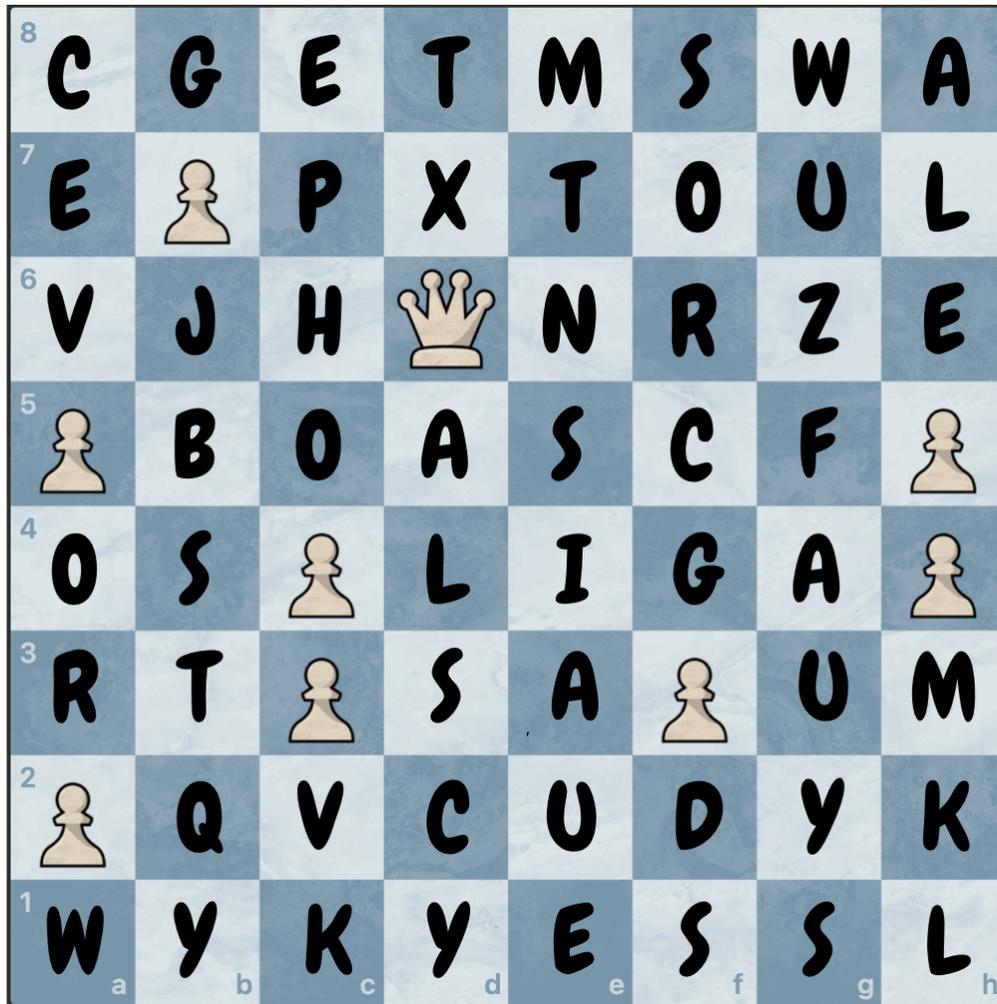
3: _____

For grader's only:

Question:	1	2	3	Total
Points:	24	24	24	72
Score:				

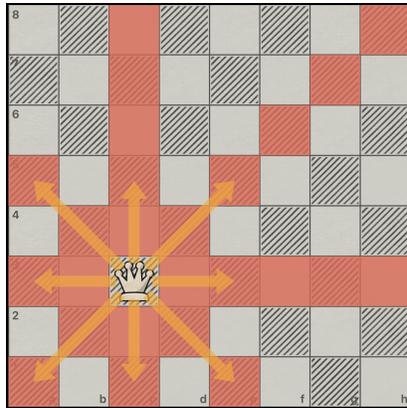
PUZZLE 1:
A Peaceful Resolution

It's a chess civil war! (not to be confused with THE Civil War) All pieces can attack each other, and everyone is scared out of their mind. Can you find a way to place the remaining pieces so that everyone is safe??
(pawns are facing North)

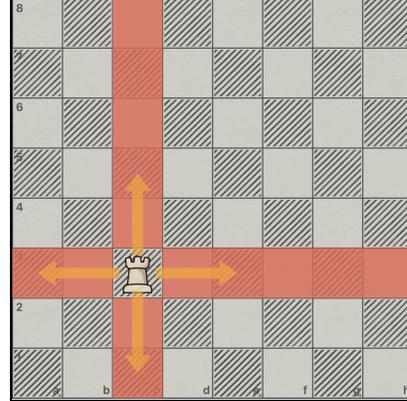


For people that don't know how chess pieces move:

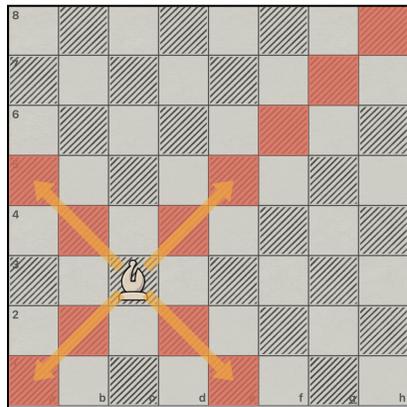
Queens attack in all directions:



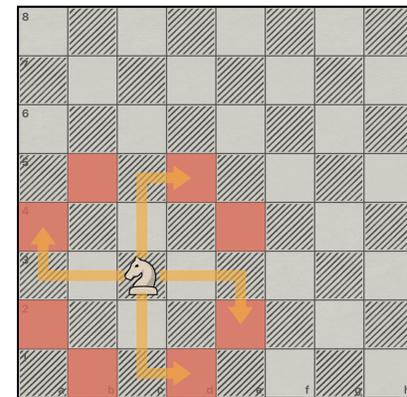
Rooks attack East-West and North-South:



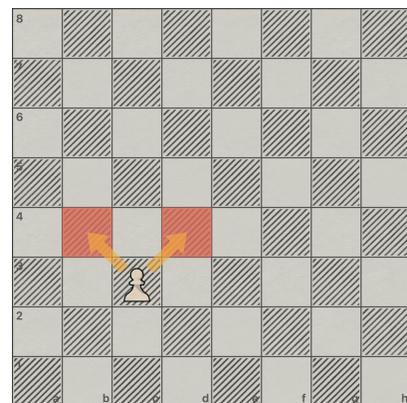
Bishops attack on diagonals:



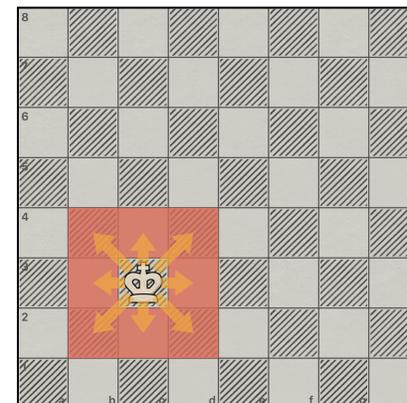
Knights attack in L-shapes:



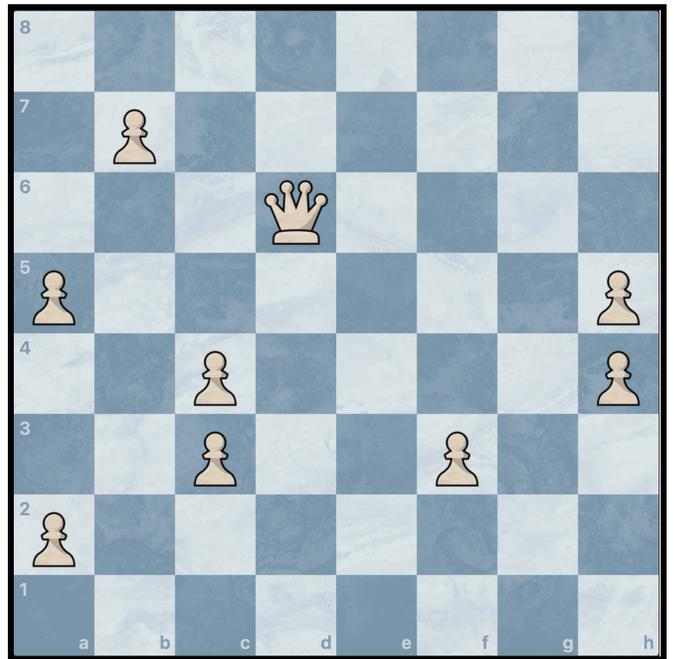
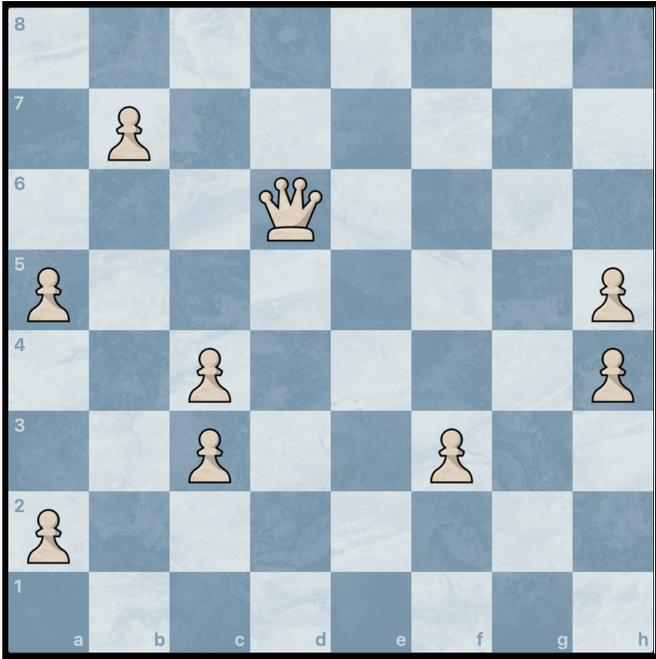
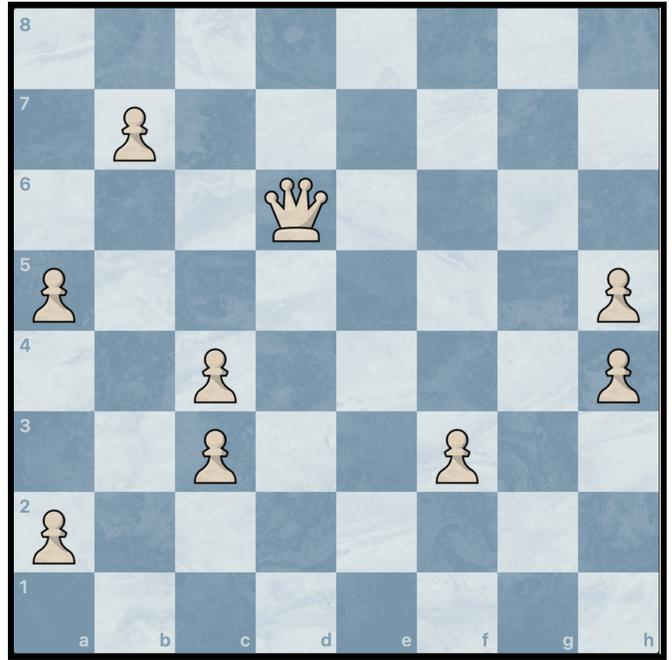
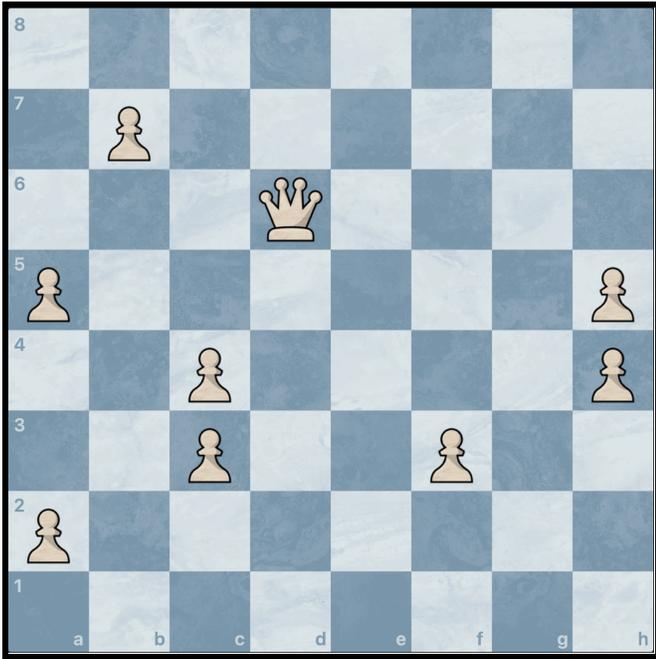
Pawns attack the immediate diagonals::



Kings attack directly around them:



For scratchwork:

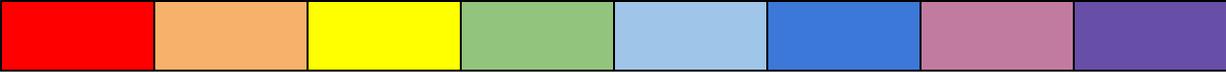


**PUZZLE 2:
Word Ladder**

You guys are smart kids. No explanation needed...

M	A	T	H	
				Lifelong partner
				Fruit that you want to kiss
				"Do it you won't!"
				Like controversial humor
				glasses and braces, stereotypically
				Madison Beer can pop this with her teeth
				"For me, I really like..." (popular 2022 TikTok audio)
				Heads or tails
				Wind around
				Heat in water
				"Nah she's one of the..." (informally)
				Jewish ceremony
				Military prison
				"Ha! I won the 2022 Absolute Value Competition"
				A spoiled one
				Rhythm
				Carry or hold
				Don't drink this until you're 21
				Soothsayer

				Burn or scorch
				An annoying animal in Finding Nemo
				Use a Medkit, in Fortnite
				"_____ or no _____"
				ring ring
				Two parts
D	U	E	L	



PUZZLE 3:
Codebreaker

Oh no!! A nuke is headed for this exact location and everyone above the age of 16 has been knocked unconscious. Luckily the password to access the anti-missile technology has been left conveniently right next to you! Can you decipher the code and save the world?
Good AIVL!! Do your NRDY!

YP DPABR YJOD GOMSA QIXXAR

UPI ZIDY YRAA ZR YJR

ASDY MSZR PG YJR GOTDY

QTRDOFRMY PG YJR

IMOYRF DYSYRD