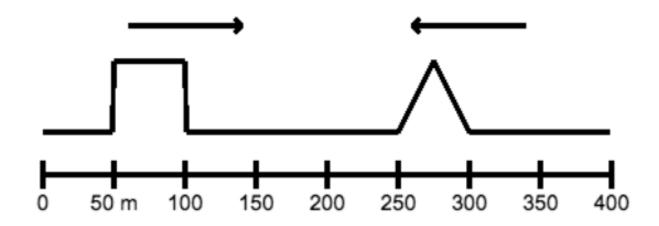
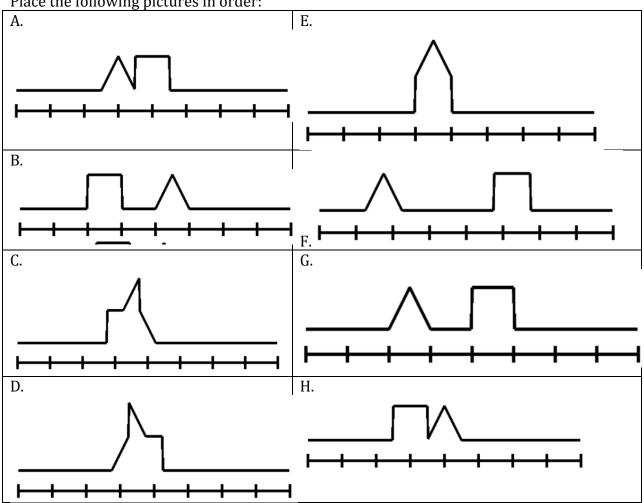
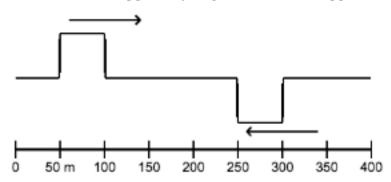
Problem 1: A box wave and a triangle wave approach each other like this:



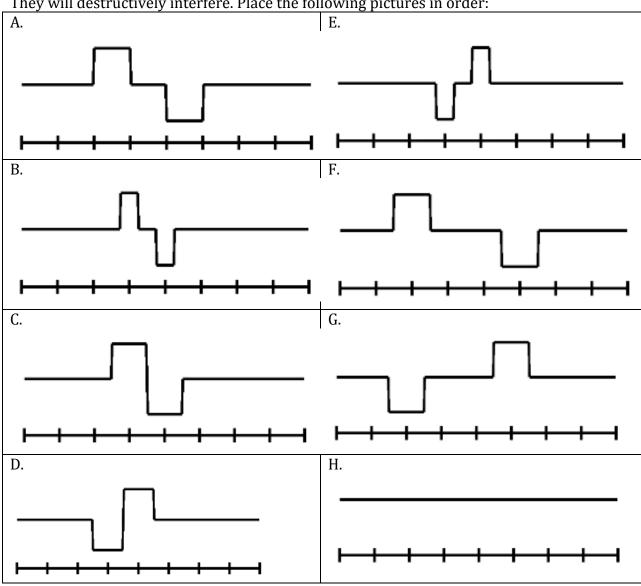
The waves will constructively interfere and create a pattern by overlapping each other. Place the following pictures in order:



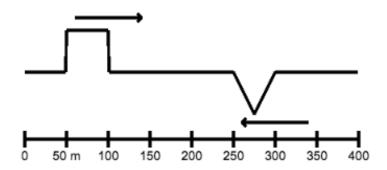
Problem 2: Two oppositely aligned box waves approach each other:



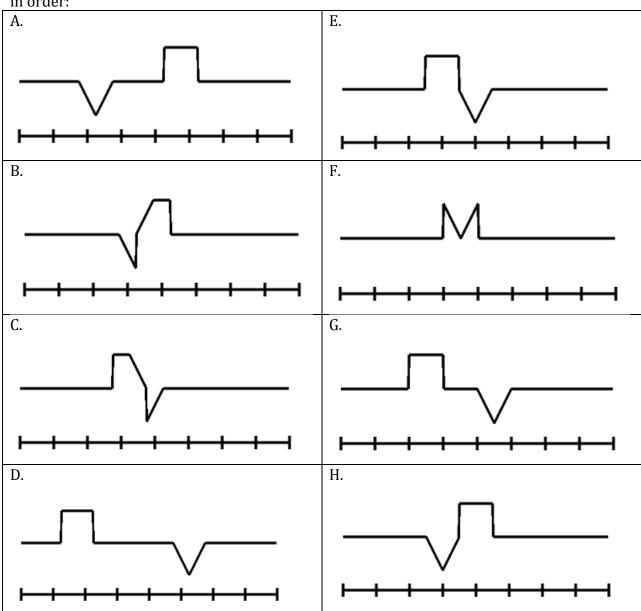
They will destructively interfere. Place the following pictures in order:



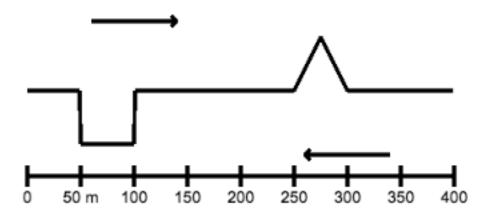
Problem 3: A positive box wave approaches a negative triangular wave.



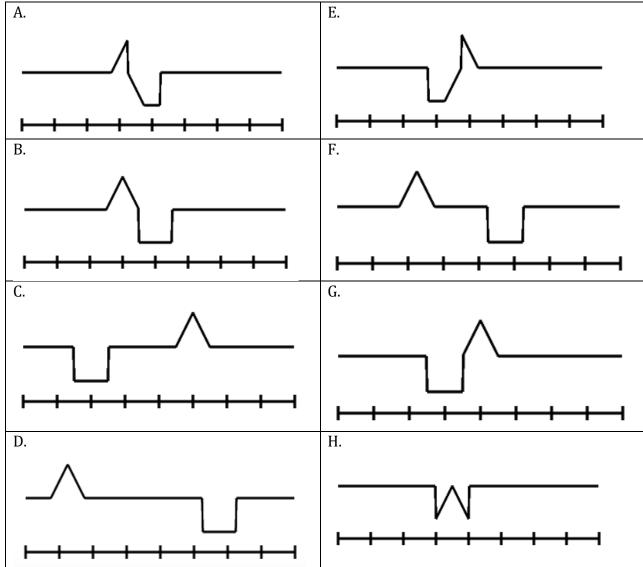
They will destructively interfere and pass through each other. Place the following pictures in order:



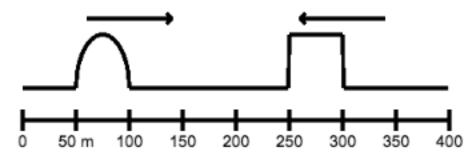
Problem 4: A negative box approaches a positive triangular wave.



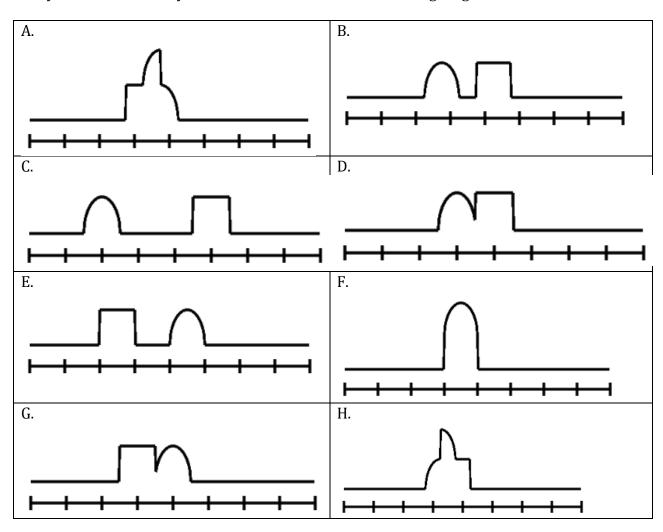
They will destructively interfere and pass through each other. Place the following pictures in order:



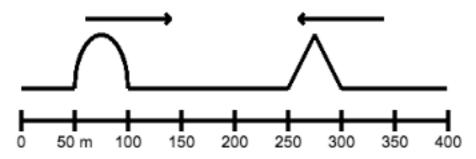
Problem 5: A round wave approaches a box wave:



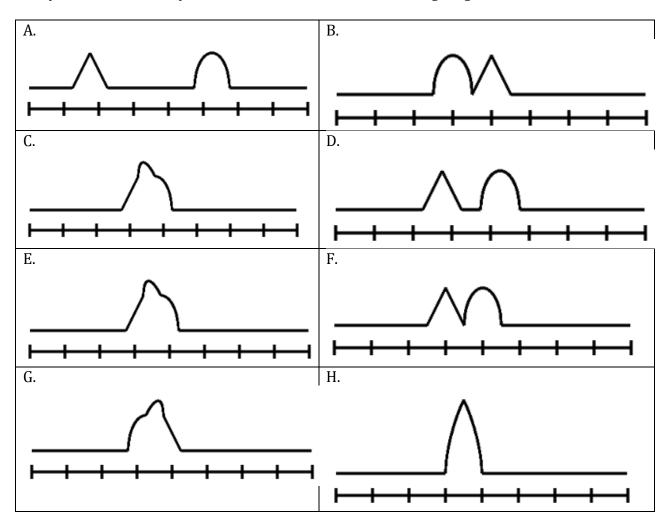
They will constructively interfere. Place each of the following diagrams in order:



Problem 6: A round wave approaches a triangular wave.



They will constructively interfere. Place each of the following diagrams in order:



Answers

Problem 1:

BHCEDAGF

Problem 2:

GDEHBCAF

Problem 3:

DGECFBHA

Problem 4:

CGEHABFD

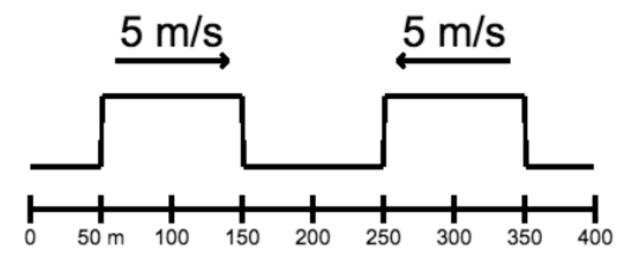
Problem 5:

CBDHFAGE

Problem 6:

EBGHCFDA

Two box waves are approaching each other.



This is the pattern they will make:

