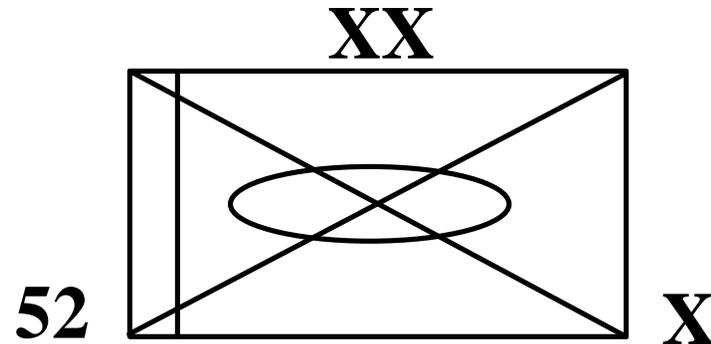


STUDENT HANDOUT 1

SH-1 IS A STUDENT WORKBOOK CONTAINING 25 PAGES TO TEST YOUR KNOWLEDGE OF FM 101-5-1, SEP 97.

GRAPHICS AND OVERLAYS
WORKBOOK



DEVELOPED FOR USE BY THE BATTLE STAFF NONCOMMISSIONED OFFICER COURSE.
PROONENT FOR THIS PROGRAM IS THE U.S. ARMY SERGEANTS MAJOR ACADEMY.
RECOMMENDED CHANGES SHOULD BE SENT DIRECTLY TO: COMMANDANT USASMA
ATTN: ATSS-BC, BLDG. 11291 BIGGS FIELD, FT. BLISS, TX. 79918-8002. POC: BATTLE STAFF
DEVELOPMENT CELL (DSN) 978-8744/8268

OPERATIONAL SYMBOLS AND OVERLAY GRAPHICS

INSTRUCTIONS

This workbook is based on FM 101-5-1, Operational Terms and Graphics, dated September 1997. It will provide you with a working knowledge to identify and construct operational symbols and graphics.

You must take your time and study each as you complete this workbook. Otherwise, you'll learn very little from carelessly answering the questions or drawing the symbols. As you progress, your speed, accuracy, and neatness will improve.

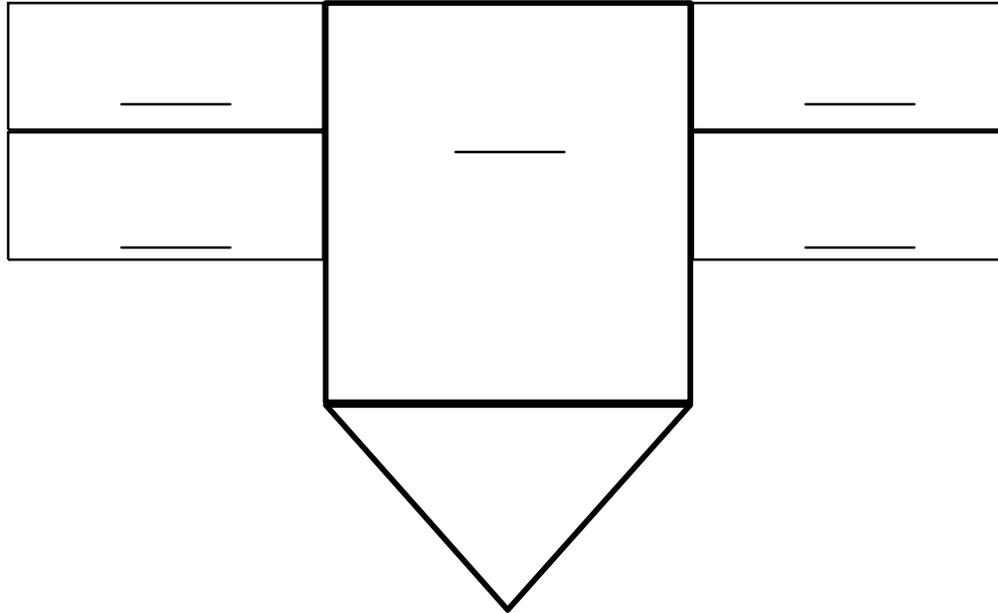
Before you begin the workbook, open FM 101-5-1 to the Contents, page i. There are five chapters and five appendixes. If you have a question concerning a term or abbreviation, look in either of the first two chapters.

Note the shadowed boxes located at the beginning of some chapters. These provide you with a link to definitions and graphic examples located throughout the Field Manual.

You should complete this workbook before the beginning of the Graphics and Overlays block of instruction.

Your goal upon completion of this workbook should be a better understanding of FM 101-5-1 and how it can be used to provide you with the information you need to replicate any graphic symbol on an overlay. You will need this knowledge to successfully complete the Graphics and Overlays Examination.

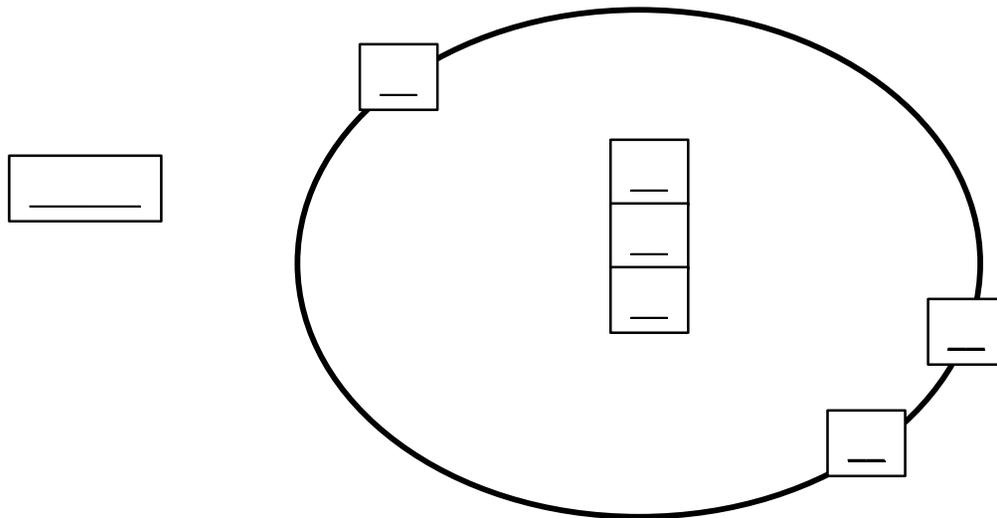
Identify the fields for a point.



What is the reference page for the above information? _____

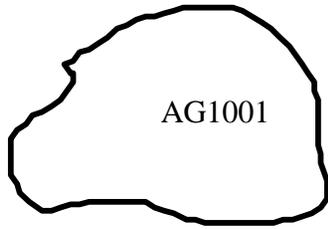
List the reference page and identify the fields for an **Area**.

Ref page: _____

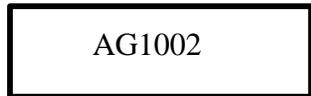


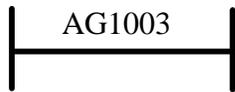
Identify the required alphanumeric characters for field Whiskey, (DTG).

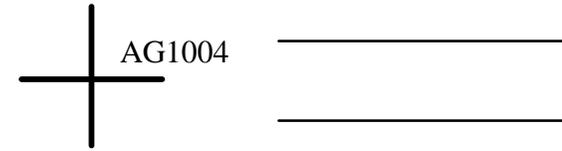
Identify the following “Maneuver and Fire”
and “Fire Support” symbology and reference page for each
symbol.



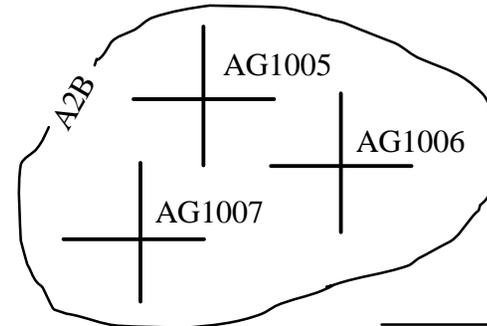






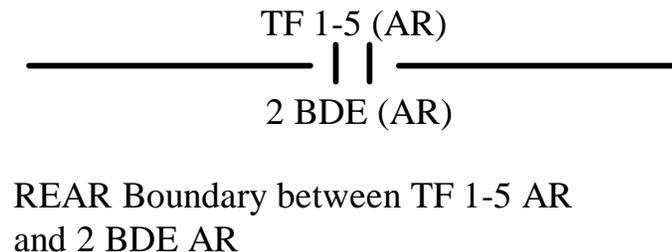
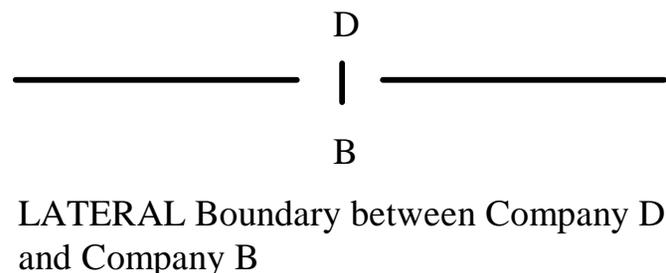
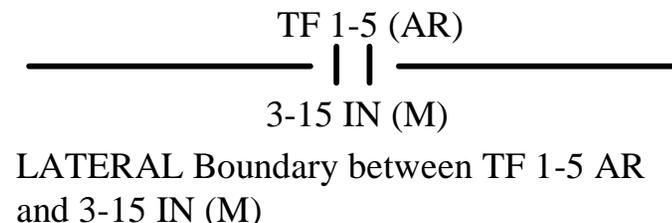
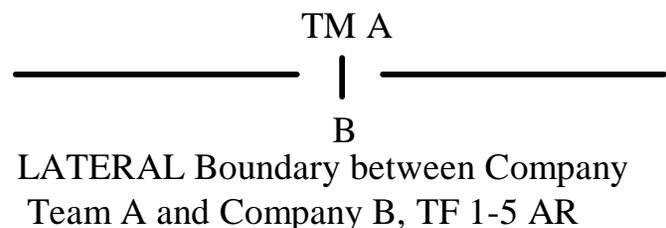
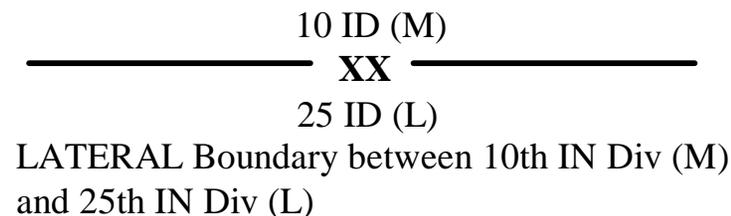
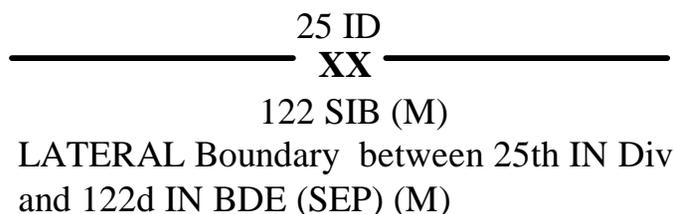


FSCL X (US) CORPS
 EFF 090900Z DEC 99



Another step in Graphics is the posting of lateral boundaries between units. A boundary is a control measure normally drawn along identifiable terrain features and used to outline areas of tactical responsibility for subordinate units.

Lateral boundaries - are control measures that define the left and right limits of a unit's zone of action or sector. Together with rear and forward boundaries and a coordinating altitude, lateral boundaries define the area of operations for a commander. Label lateral boundaries to reflect available information to achieve clarity. Authorized abbreviations are provided in Chapter 2 and 4. Chapter 3 defines required fields for lateral boundaries.



Label each boundary in accordance with the provided information. For this exercise, place the first unit to the north and the second unit to the south, consider the top of the page as north.

Rear Boundary between 1st BDE IN (M) and 3d IN Div (M) _____ _____

Lateral Boundary between X Corps (US) and 1st Armor Div (UK) _____ _____

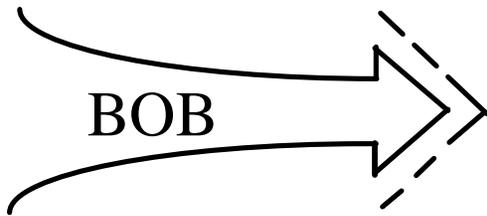
Lateral Boundary between 52d IN Div (M) and 54th IN Div _____ _____

Rear Boundary between B Company and TF 1-79 IN (M) _____ _____

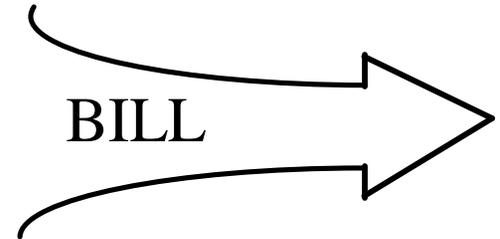
Lateral Boundary between Company Team F and Company Team B _____ _____

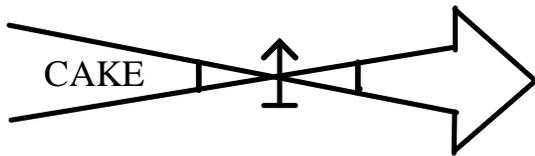
Rear Boundary between 3d BDE Mech and TF 1-4 Armor _____ _____

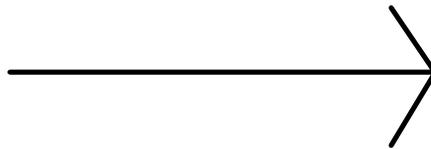
Identify the following symbols and the reference page for each.













Identify the following symbols and the reference page for each.

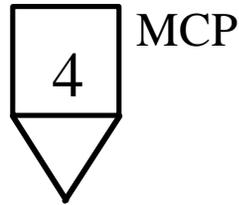






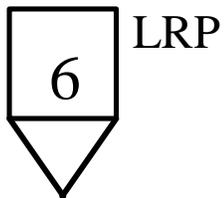


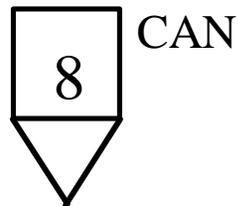


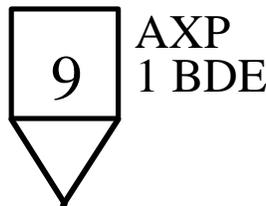


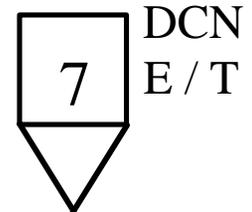




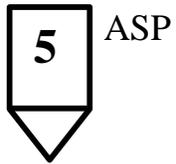


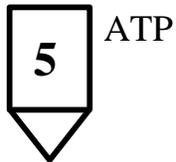






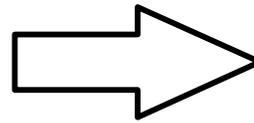
Identify the following CSS symbology and reference page using Chapter 3:











MSR BOB



MSR ROGER





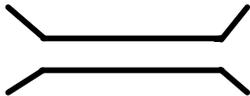


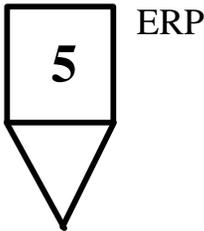
Identify the following Mobility and Survivability Symbology and the reference page as identified in Chapter 3 :















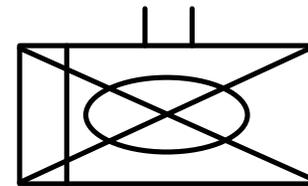


Use the following colors to complete your overlays.

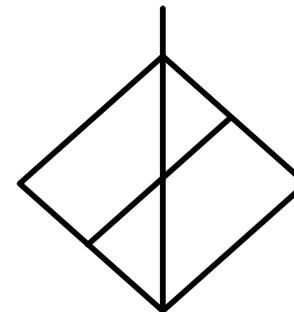
Green: All obstacles, friendly, enemy, neutral, or factional.



Black: All friendly units and graphic control measures.



Red: Enemy symbols and enemy graphic control measures.

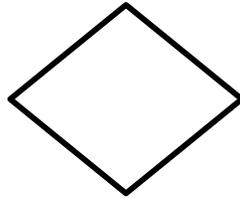


What page refers to the use of these colors? _____

These are the three basic symbols used in graphics.



FRIENDLY GROUND UNITS
(RECTANGLE)



ENEMY UNITS (DIAMOND)



NEUTRAL (SQUARE)

What is the reference page _____?

NOTE:

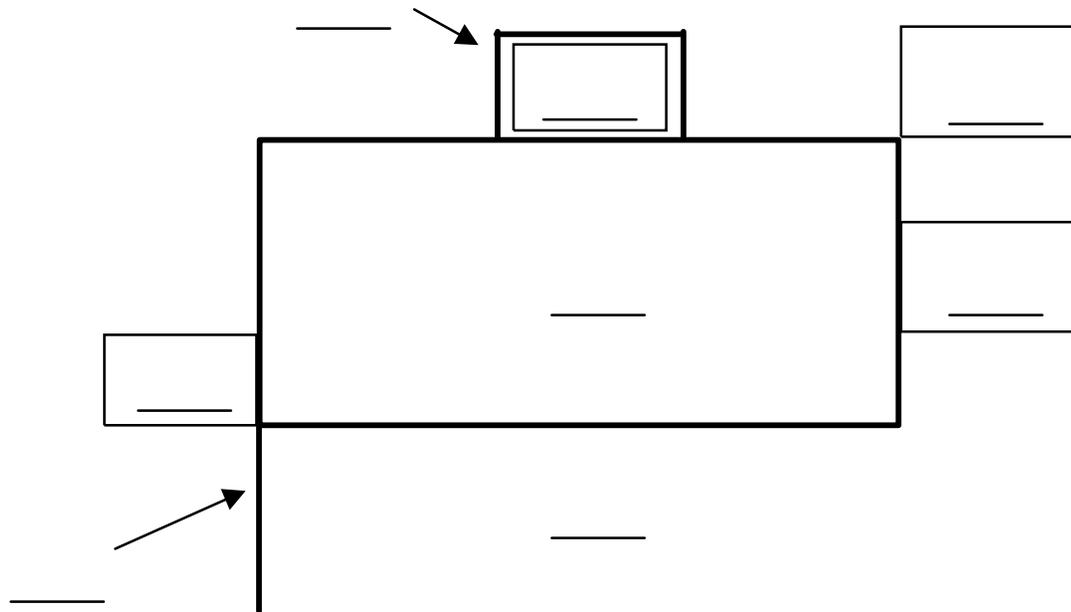
FM 101-5-1 SHOWS SYMBOLOGY FOR SHIPS AND AIRCRAFT; HOWEVER, WE WILL NOT ADDRESS THESE SYMBOLS DURING THIS COURSE.

The required **Mandatory** fields for any specific symbol are those fields needed to correctly represent any given symbol.

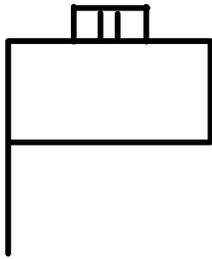
For most unit symbols it will be necessary to fill in fields Alpha, Bravo, Tango, and possibly Delta, Foxtrot, Hotel and Sierra.

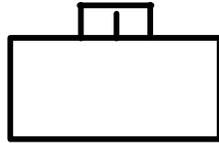
Notice that with field Alpha there may be several modifiers required to correctly replicate a unit; e.g., airborne, gun system equipped, or bicycle equipped.

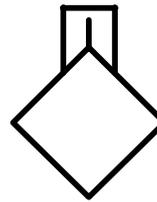
Identify each of the fields indicated for this symbol.

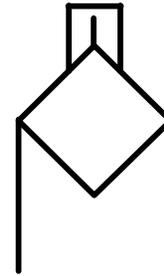


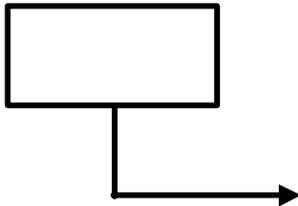
Field _____, placed over the size indicator field denotes a temporary grouping of units. We use this special size indicator to depict a _____ or _____. If you are drawing a Headquarters element what field must you use? _____. You can find this field on the friendly and enemy types of symbols. What do these symbols represent?

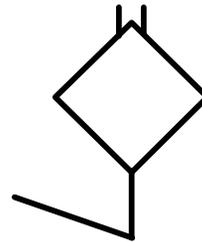






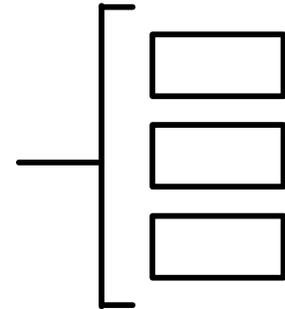
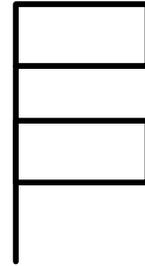
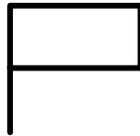
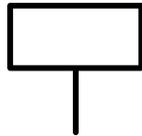








What do the following symbols represent and what is the reference page in FM 101-5-1? _____



Answers:

We use X's to represent the size of Brigade thru _____ Units.

Annotate below which unit size is depicted:

SYMBOL

X
XX
XXX
XXXX
XXXXX
XXXXXX

UNIT SIZE

We use the following symbols to show the size of units below Company level. These sizes are:

-  Represents a _____
-  Represents a _____
-  Represents a _____
-  Represents a _____

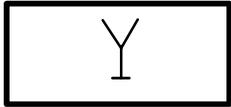
We use vertical lines to represent the size of units from Company to Regimental/Group level. These sizes are:

-  Represents a _____
-  Represents a _____
-  Represents a _____

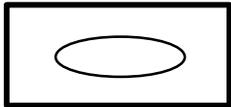
What is the reference page in FM 101-5-1? _____

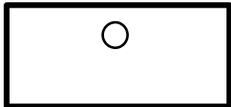
Start on 4-8 (FM 101-5-1) and identify these modifiers to field Alpha.





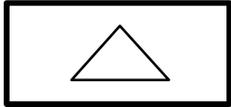






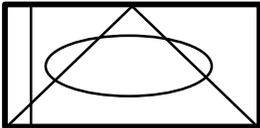


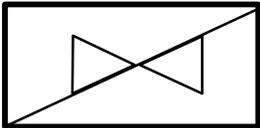


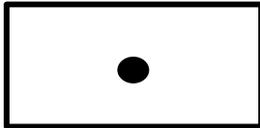


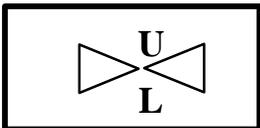


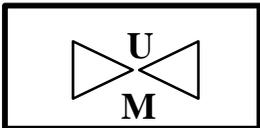
Name these units:

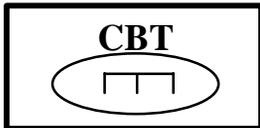


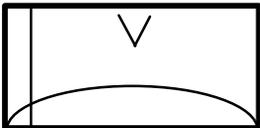


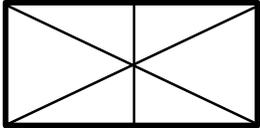






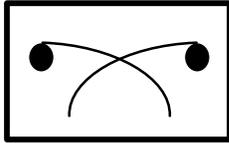




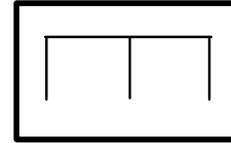




Name these Combat Support Units.



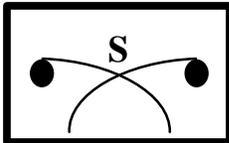


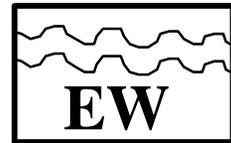


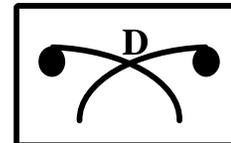




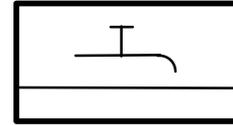


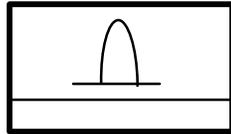
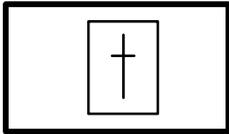


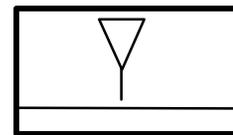




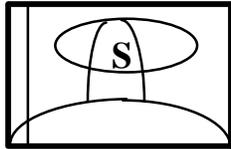
Name these Combat Service Support Units.

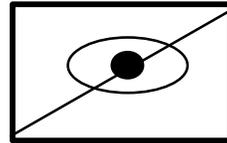


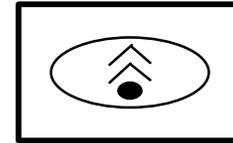


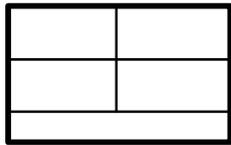


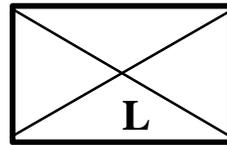
Identify these symbols.

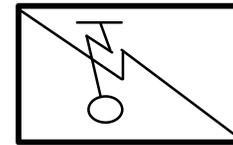


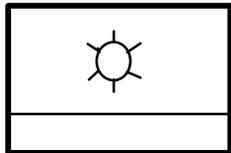


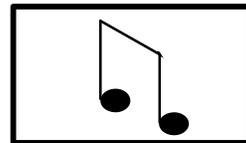


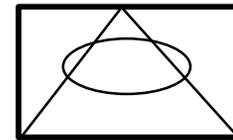












Draw the correct field Alpha, Bravo, Delta, and Tango entries for the symbols below:



1st Plt Airborne IN



Company Team A, Air Assault IN



1st Section Bicycle Equipped IN



Company-sized
Medical Treatment Facility



1-79 IN (M) (B)



2-66 IN Mountain



Recon Platoon



3rd Squad IN Observation Post



ADA Team Listening Post



A Battery SP Artillery

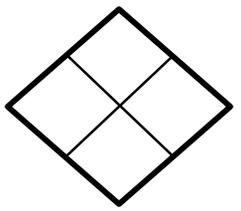


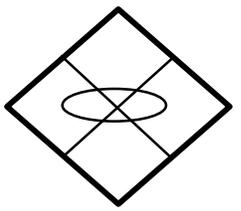
TF 1-4 Armor

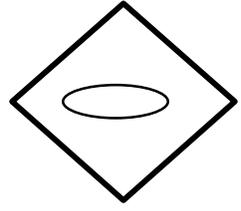


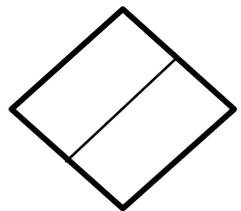
GSR Team

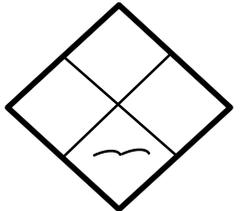
Identify the following symbols from Chapter 4 and Appendix B.

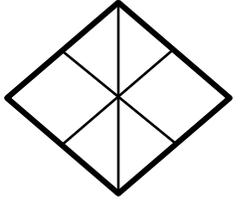


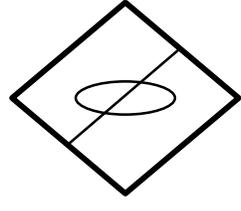


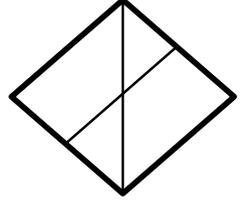


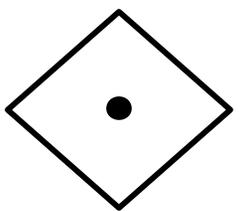


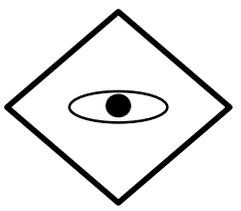


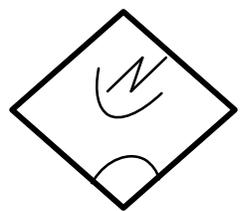


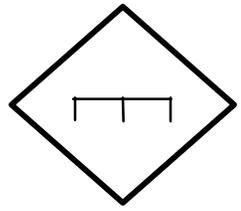




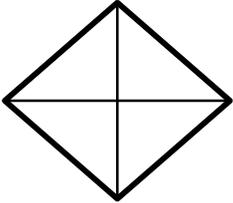


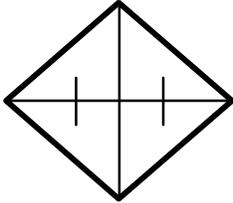




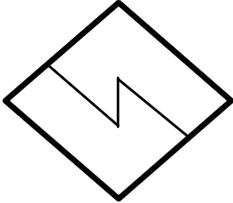


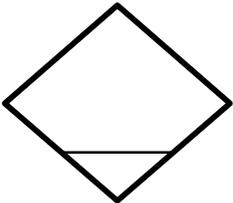
Identify the following symbols from Appendixes B and D :

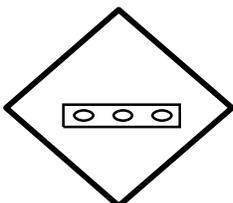


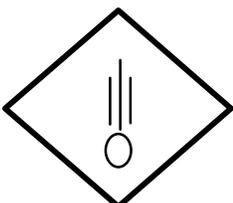


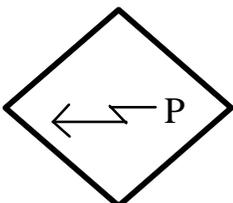


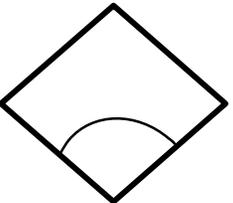


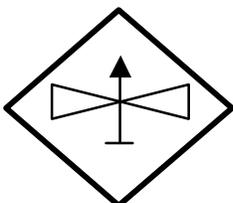


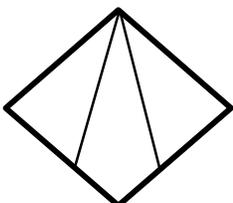


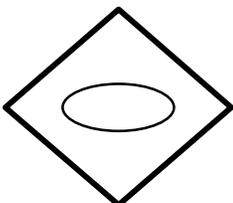












DRAW THE SYMBOL FOR YOUR UNIT AND YOUR NEXT HIGHER HEADQUARTERS.

IF YOU ARE IN A TDA UNIT, THEN USE THE LAST TACTICAL UNIT YOU WERE IN AND IT'S NEXT HIGHER HEADQUARTERS.

IF YOU ARE ENROUTE TO A NEW ASSIGNMENT, DRAW THE UNIT YOU JUST LEFT AND IT'S NEXT HIGHER HEADQUARTERS.

