

Show-Me GOLD



## Military Symbols & Graphics



## WHAT ARE MILITARY SYMBOLS?



- **GRAPHIC REPRESENTATION OF:**
  - UNITS
  - EQUIPMENT
  - INSTALLATIONS
  - CONTROL MEASURES
  - OTHER ELEMENTS
- **COMMON VISUAL LANGUAGE**

## TERMINAL LEARNING OBJECTIVE



- **ACTION: CORRECTLY COMPILE AND CONSTRUCT AN OPERATIONAL OVERLAY.**
- **CONDITION: IN A CLASSROOM ENVIRONMENT GIVEN 1:50 000 MAP, A TACTICAL SITUATIONAL BRIEF AND ACCESS TO ADRP 1-02 Terms and Military Symbols.**
- **STANDARD: CORRECTLY COMPILE AND CONSTRUCT AN OPERATIONAL OVERLAY IAW ADRP 1-02 Terms and Military Symbols.**

## PURPOSE OF MILITARY SYMBOLS



- **TO ALLOW COMMANDERS AND STAFFS TO DISPLAY CERTAIN ELEMENTS OF THE OPERATIONAL PICTURE.**
- **USED ON**
  - SITUATIONAL MAPS
  - OVERLAYS
  - ANNOTATED AERIAL PHOTOGRAPHS
- **USED TO EXPRESS**
  - OPERATIONAL PLAN OR ORDER
  - CONCEPT
  - FRIENDLY OR HOSTILE SITUATION

## ENABLING LEARNING OBJECTIVE 1



- **ACTION: IDENTIFY THE PURPOSE AND COMPOSITION OF MILITARY SYMBOLS AND MARGINAL INFORMATION**
- **CONDITION: IN A CLASSROOM ENVIRONMENT, GIVEN A 1:50 000 MAP, A READING ASSIGNMENT AND ACCESS TO ADRP 1-02 Terms and Military Symbols.**
- **STANDARD: IDENTIFY THE PURPOSE AND COMPOSITION OF MILITARY SYMBOLS AND MARGINAL INFORMATION IAW ADRP 1-02 Terms and Military Symbols, AND ACHIEVE A 80% PASS ON THE OVERALL TESTING AT THE END OF THE WEEK.**

## MARGINAL INFORMATION

- COLOR = **BLACK**
- CLASSIFICATION
- OPERATION NAME
- GRID REFERENCE POINTS
- AUTHOR
- DATE/TIME GROUP
- MAP REFERENCE AND SIZE
- NORTH SEEKING ARROW

## PRACTICAL EXERCISE

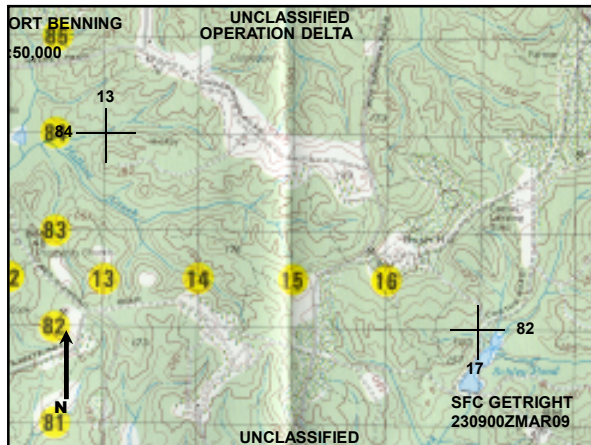
- **GENERAL:** Instructions for Practical Exercise.
- The purpose of this P.E. is to familiarize the Officer Candidate Students with the Operational Terms and Symbols most commonly used when planning company and Platoon level tactical operations.
- The use of ADRP 1-02 and any other doctrinal source is authorized.
- Use the correct colors and symbols.
- Reference map: FT Benning; 1:50,000.
- Mark Grid Reference points at 0985 and 1978
- Place all requirements on an unclassified operations overlay for "Operation Delta"

## GRAPHIC CONTROL MEASURES

A Control Measure symbol is a graphic used on maps and displays to regulate forces and war fighting functions.

It's how commanders use symbols to control movement on the ground.

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## GRAPHIC CONTROL MEASURES

Generally fall into one of three categories;

- Points
- Lines
- Areas

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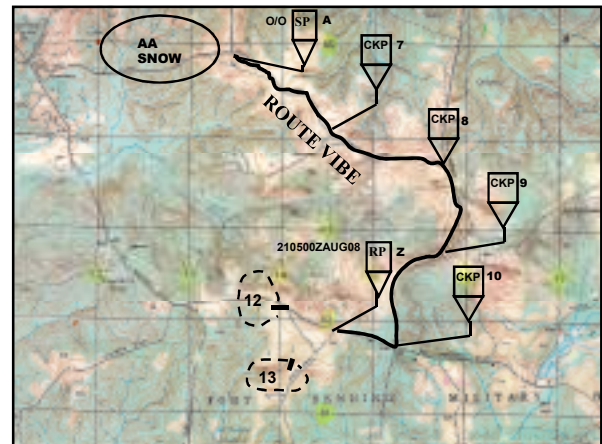
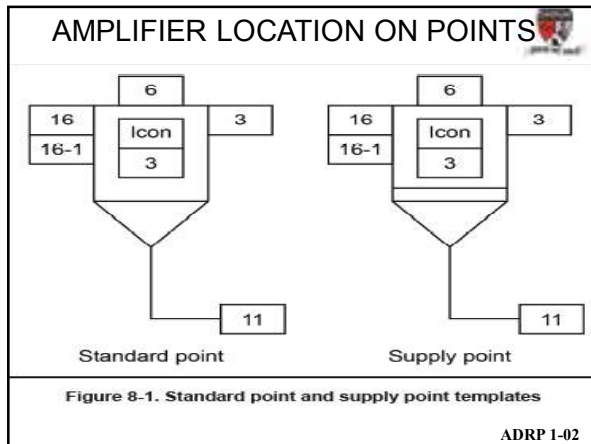
## ENABLING LEARNING OBJECTIVE 2

- **ACTION:** IDENTIFY THE PURPOSE AND COMPOSITION OF GRAPHIC CONTROL MEASURES
- **CONDITION:** IN A CLASSROOM ENVIRONMENT, GIVEN A 1:50 000 MAP, A READING ASSIGNMENT AND ACCESS TO ADRP 1-02 Terms and Military Symbols.
- **STANDARD:** IDENTIFY THE PURPOSE AND COMPOSITION OF GRAPHIC CONTROL MEASURES IAW ADRP 1-02 Terms and Military Symbols, AND ACHIEVE A 80% PASS ON THE OVERALL TESTING AT THE END OF THE WEEK.

## GRAPHIC CONTROL MEASURES RULES

- COLORS
  - FRIENDLY - BLACK or Blue
  - HOSTILE - RED
  - NEUTRAL - GREEN
  - UNKNOWN - YELLOW
- ORIENTATION
- LABELING
- STATUS

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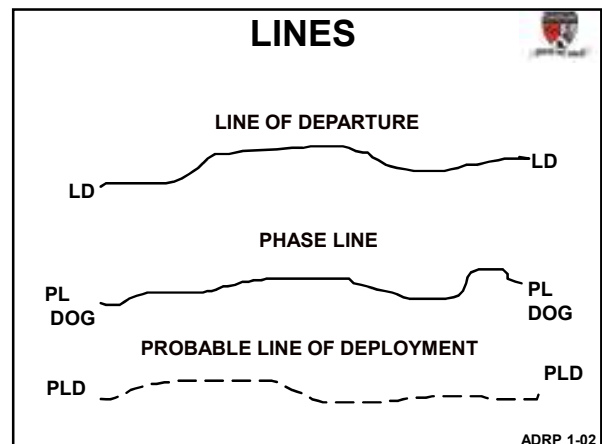
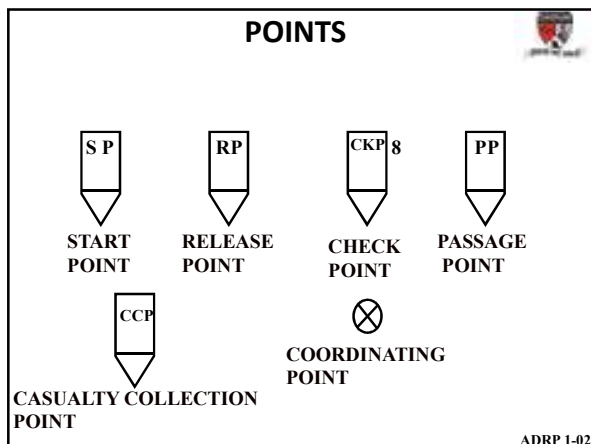
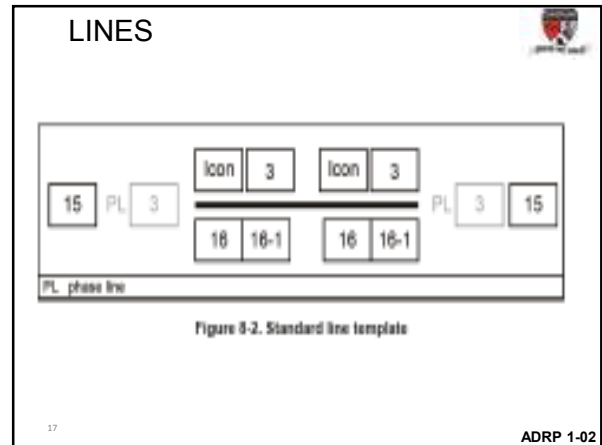


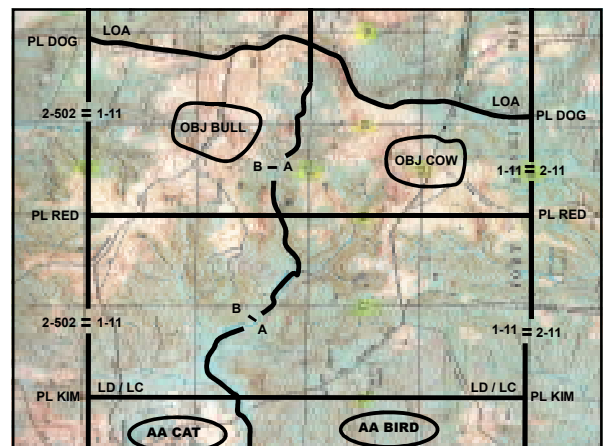
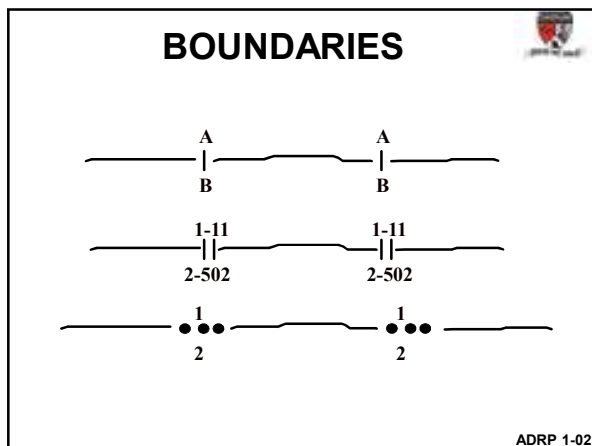
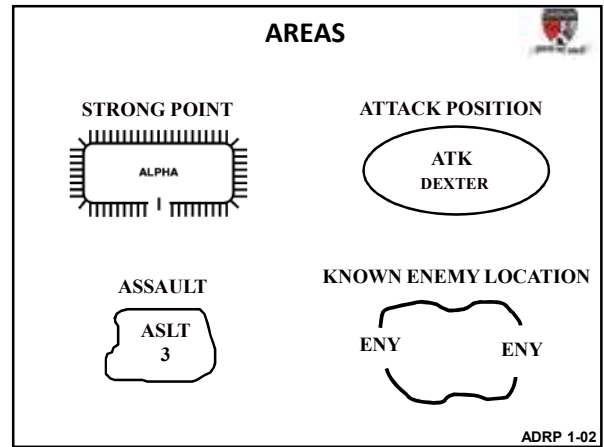
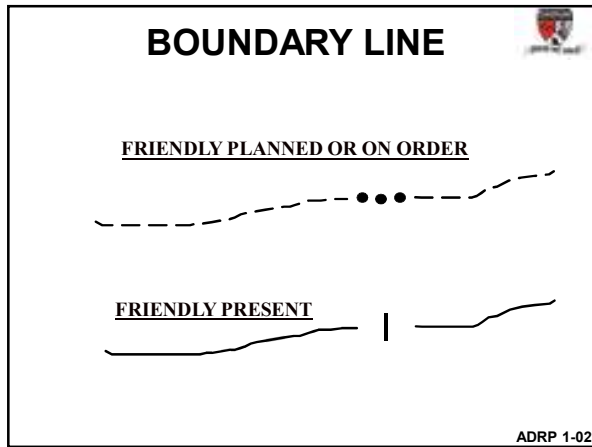
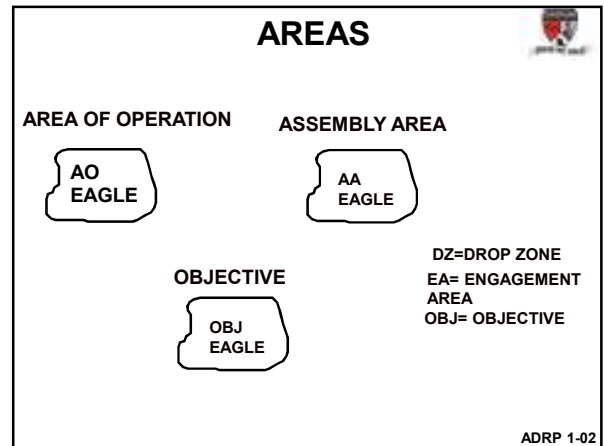
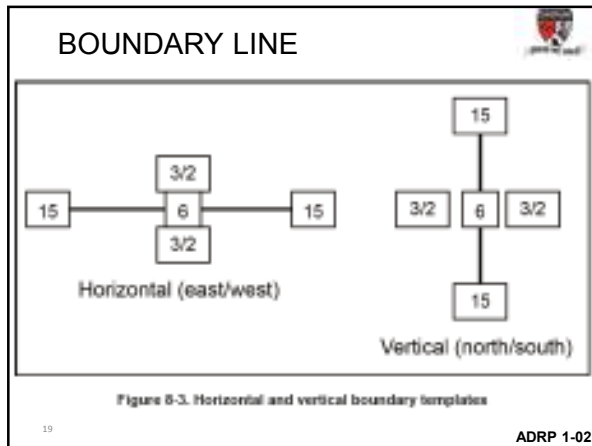
### AMPLIFIER DESCRIPTION

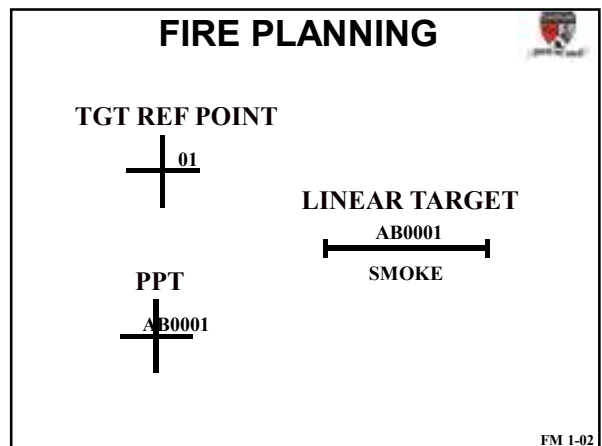
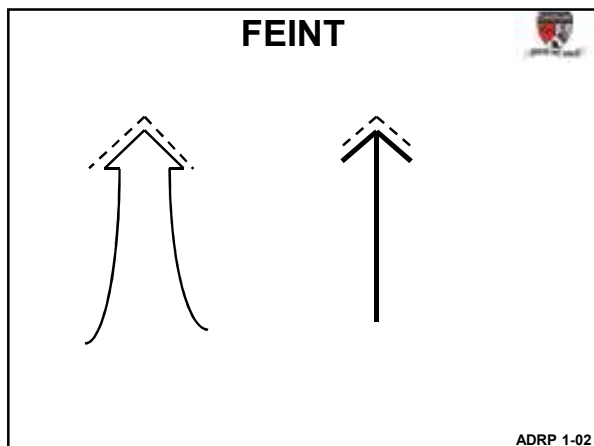
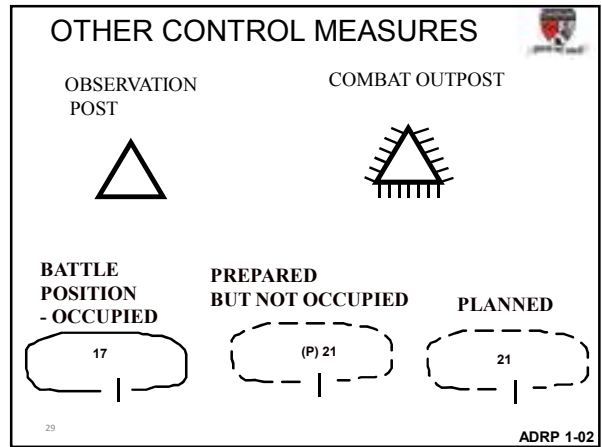
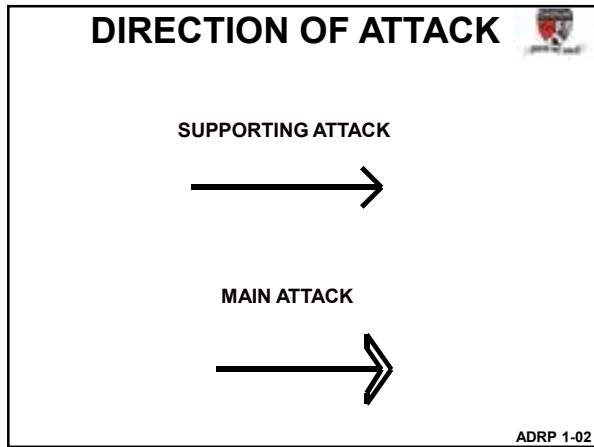
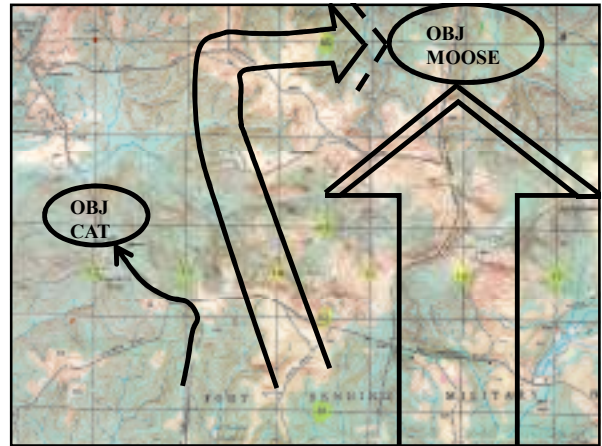
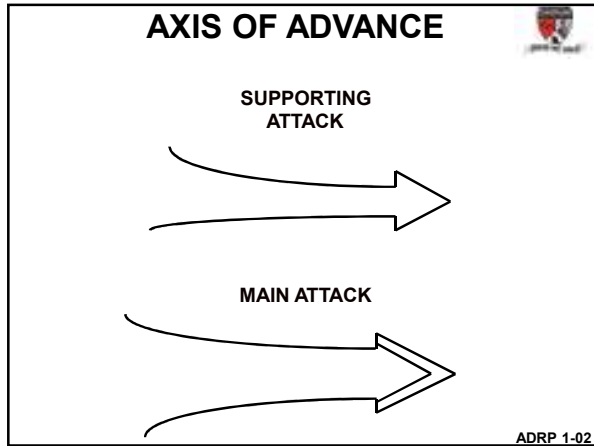
Table 3-6. Description of control measure symbol amplifier fields

Field	Description
2	An accepted code that shows the country indicator.
3	An alphanumeric unique designation that identifies the unit being displayed or a name, letter, or number. <i>Note:</i> For those units designated under the United States Army Regimental System (USARS) (formerly known as the Combat Arms Regimental System (CARS)), both the battalion (or squadron) and traditional regimental numbers are shown. To avoid confusion with different levels of command, both numerical designations of the USARS-designated units are always written together and separated by a dash (-) rather than a slash (/). AR 600-82 provides a listing of USARS units. The dash (-) is only used between the battalion and the regiment. The slash (/) is used between all other levels of command. Example: A6-37/2 (Battery A, 6th Battalion, 37th Field Artillery, 2d Infantry Division) or B1-7/11 (B Troop, 1st Squadron, 7th Cavalry Regiment, 1st Brigade, 1st Cavalry Division).
5	Free text staff comments for information required by the commander.
6	Echelon indicator of the symbol.
7	Quantity that identifies the number of items present. For a nuclear event, identifies the actual or estimated size of the nuclear weapon used in kilotons (KT) or megatons (MT).
11	The direction of movement arrow indicates the direction the symbol is moving or will move. For chemical, biological, radiological or nuclear events, the direction of movement arrow indicates downwind direction. The offset location indicator without the arrow is used to denote precise location of units or to declutter multiple unit locations, except for headquarters.
15	Denotes enemy symbol. The letters "ENY" are used when color red is not used.
16	An alphanumeric designator for displaying a date-time group (DDHHMMSSZMONYYYY) or "OIC" for on order.
16-1	Used with 16 for displaying a date-time group for a from-to specified time period.
17	Identifies unique designation for type of equipment.
18	Denotes the location in latitude and longitude or grid coordinates.

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### PRACTICAL EXERCISE

- GENERAL: Instructions for Practical Exercise.
- The purpose of this P.E. is to familiarize the Officer Candidate Students with the Operational Terms and Symbols most commonly used when planning company and Platoon level tactical operations.
- The use of ADRP 1-02 and any other doctrinal source is authorized. Use the correct colors and symbols.
- Reference map: FT Benning; 1:50,000.
- REQUIREMENT: You are a Platoon Leader in B Co., 1-77 IN, which is a pure Light Battalion. Prepare an operations overlay on acetate depicting the following:

### ENABLING LEARNING OBJECTIVE 3

- **ACTION:** IDENTIFY THE PURPOSE AND COMPOSITION OF UNIT SYMBOLS
- **CONDITION:** IN A CLASSROOM ENVIRONMENT, GIVEN A 1:50 000 MAP, A READING ASSIGNMENT AND ACCESS TO ADRP 1-02 Terms and Military Symbols.
- **STANDARD:** IDENTIFY THE PURPOSE AND COMPOSITION OF MILITARY SYMBOLS IAW ADRP 1-02 Terms and Military Symbols, AND ACHIEVE A 80% PASS ON THE OVERALL TESTING AT THE END OF THE WEEK.

### PRACTICAL EXERCISE

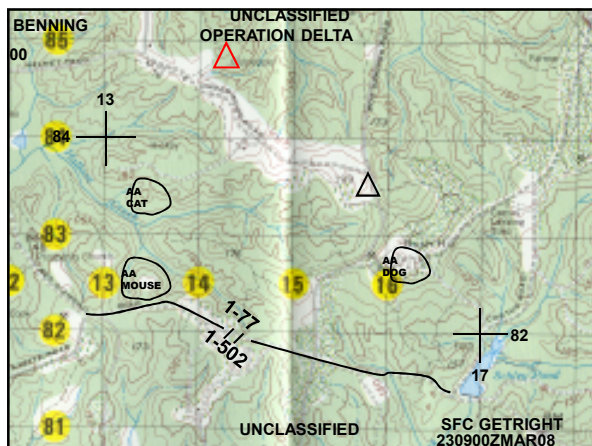
1. Place an assembly area at grid GL 13468246. Name the assembly area AA Mouse
2. Place an assembly area at grid GL 16158275. Name the assembly area AA Dog.
3. Place an assembly area at grid GL 13448340. Name the assembly area AA Cat.
4. Draw the BN boundary from the intersection at grid GL 12858215 to grid GL 16708135, following the southern side of Red Diamond Road. 1-77<sup>th</sup> IN is to the north and 1-502nd IN is south of the boundary.
5. BN Scouts has occupied an observation post at grid GL 15708360.
6. An enemy observation post is located at grid GL 14258490.

### UNIT SYMBOLS

**A unit is military element whose structure is prescribed by a competent authority, such as a table organization and equipment; specifically, part of an organization.**

Generally are Team size elements to Theater size organizations.

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### COLORS

Color indicates affiliation.

AFFILIATION	HAND-DRAWN	COMPUTER GENERATED
Friend, Assumed Friend	Blue	Cyan
Hostile, Suspect	Red	Red
Neutral	Green	Green
Unknown, Pending	Yellow	Yellow
Friendly Graphic Control Measures	Black	Black

**ANY OTHER COLOR WILL BE SHOWN IN THE LEGEND AND WHAT THEY REPRESENT!**

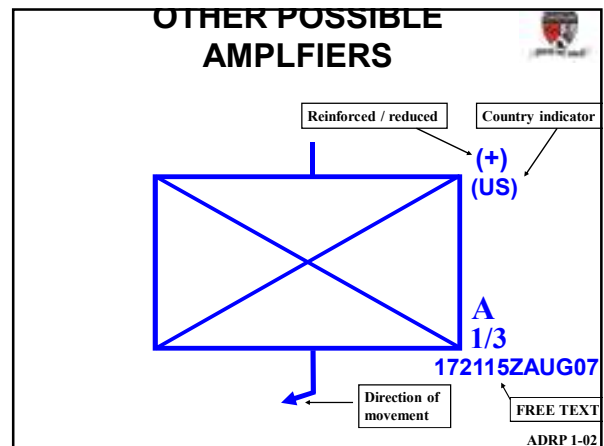
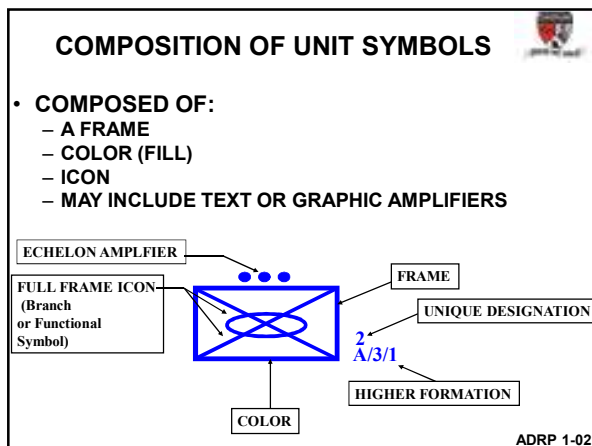
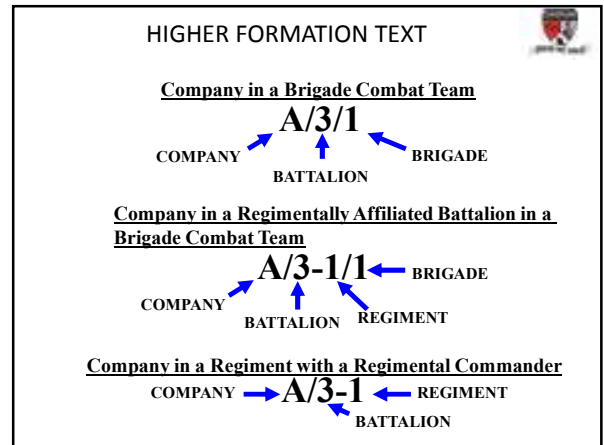
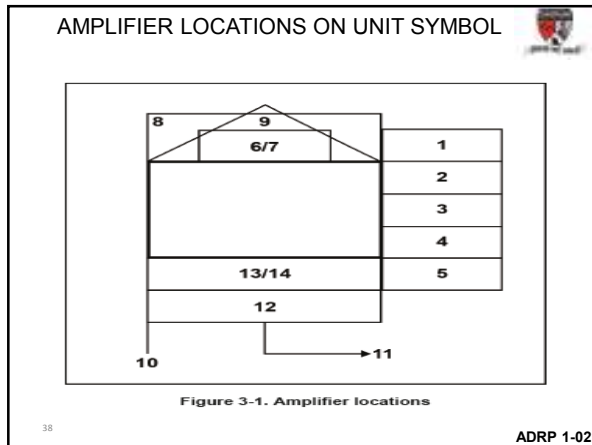
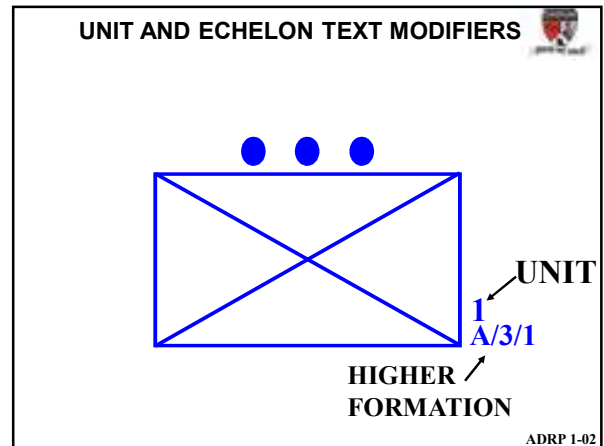
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### STATUS OF UNIT SYMBOL

Table 3-2. Examples of status

	Present	Planned
Friendly		
Hostile		

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### ECHELON AMPLIFIERS

**SQUAD**                      **SECTION**                      **PLATOON**  
**COMPANY or BATTERY or TROOP**    **BATTALION or SQUADRON**    **REGIMENT or GROUP**

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### MAIN ICONS FOR UNITS

(REFLECTS MAIN FUNCTION OF THE UNIT)

ARMOR	FIELD ARTILERY	ENGINEER
	<b>MP</b>	<b>SF</b>
COMBINED ARMS	MILITARY POLICE	SPECIAL FORCES

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### FULL FRAME ICONS

INFANTRY	ARMOR CAVALRY	ANTI ARMOR
RECON	MEDICAL	SUPPLY

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### MODIFIERS FOR UNITS

#### SECTOR 1 MODIFIERS (CAPABILITY)

ARMORED	CHEMICAL	SEARCH AND RESCUE

#### SECTOR 2 MODIFIERS (MOBILITY)

LIGHT INFANTRY	AIRBORNE INFANTRY	AIR ASSAULT INFANTRY

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### THE BOUNDING OCTAGON

Table 3-4. Examples of horizontal and vertical bounding octagons

<i>Horizontal bounding octagon</i>			
<i>Vertical bounding octagon</i>			

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### WHO & WHAT ??????

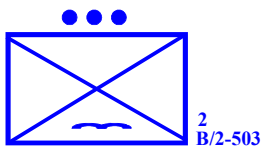
2nd PLT, A CO, 3rd CAB, 1st BDE

2  
A/3/1



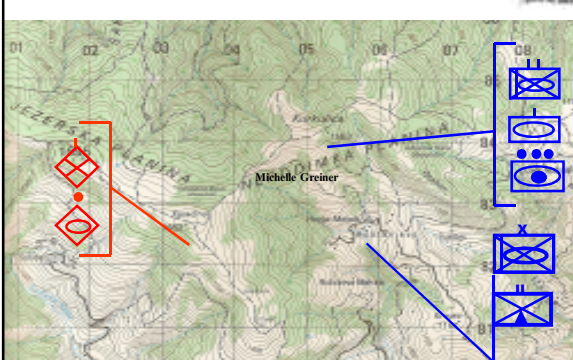
**WHO & WHAT ?**

2<sup>nd</sup> Platoon, B Company,  
2<sup>nd</sup> Battalion, 503<sup>rd</sup> Infantry Regiment ABN



2  
B/2-503

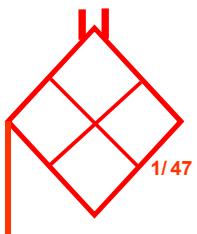
**OFFSET LOCATOR INDICATOR AMPLIFIER**



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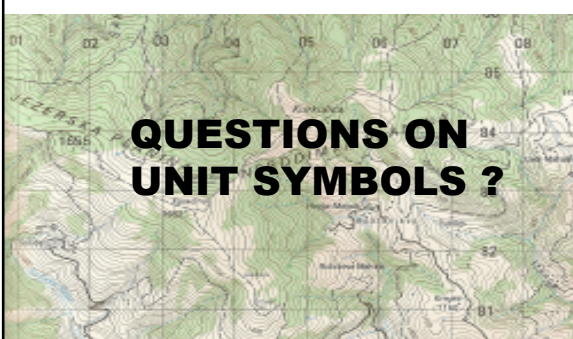
**WHO & WHAT ?????**

(Enemy Headquarters)  
1<sup>st</sup> Battalion, 47<sup>th</sup> Infantry Brigade

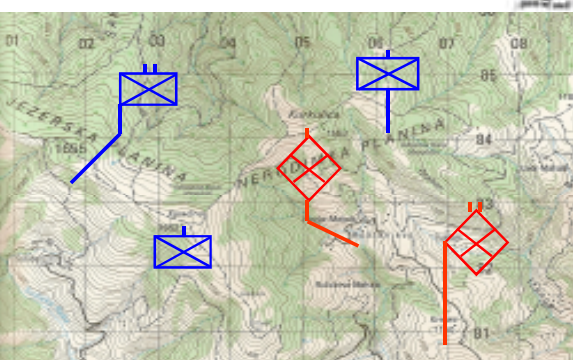


1/47

**QUESTIONS ON  
UNIT SYMBOLS ?**



**OFFSET LOCATOR INDICATOR AMPLIFIER**



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**PRACTICAL EXERCISE**

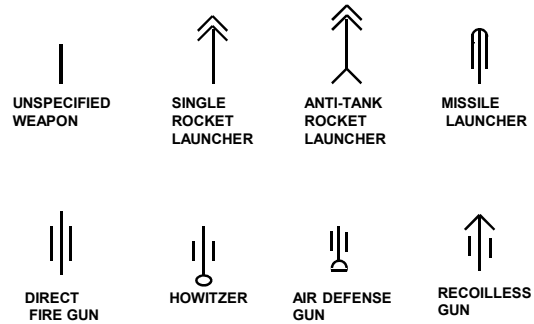
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- Reference map: FT Benning; 1:50,000.

## PRACTICAL EXERCISE

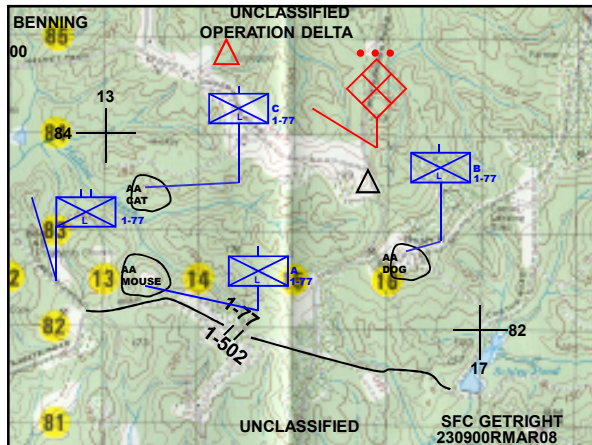
•**REQUIREMENT:** You are a Platoon Leader in B Co., 1-77 IN, which is a pure Light Battalion. You **MUST** use staffs to show the locations of your units. Prepare an operations overlay on acetate depicting the following:

1. Place BN HQ 1-77 IN(L) on the high ground at GL 12258335.
2. Place A Co. 1-77IN(L) on the hilltop at grid GL13468246.
3. Place B Co 1-77IN(L) on the hilltop at grid GL 16158275.
4. Place C Co 1-77IN(L) on the hilltop at grid GL 13448340.
5. Place the enemy infantry platoon at GL 15228430

## EQUIPMENT SYMBOL COMPONENTS

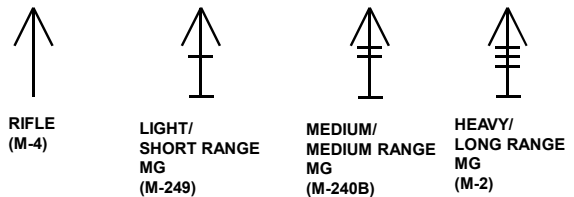


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## EQUIPMENT SYMBOLS

### Small Arms Weapon Systems

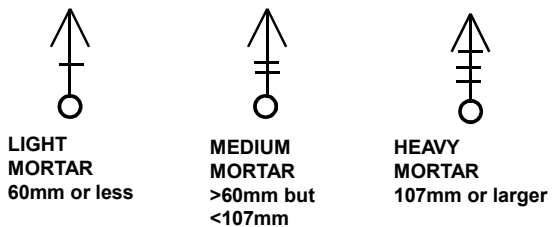


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## ENABLING LEARNING OBJECTIVE 4

- **ACTION:** IDENTIFY AND DRAW STANDARD EQUIPMENT SYMBOLS.
- **CONDITION:** IN A CLASSROOM ENVIRONMENT, GIVEN A 1:50000 MAP, A TACTICAL SITUATIONAL BRIEF AND ACCESS TO ADRP 1-02 Terms and Military Symbols.
- **STANDARD:** IDENTIFY AND DRAW STANDARD EQUIPMENT SYMBOLS IAW ADRP 1-02 Terms and Military Symbols AND ACHIEVE 80% ON THE OVERALL EVALUATION


## EQUIPMENT SYMBOLS




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### EQUIPMENT SYMBOLS


#### HOWITZERS



**LIGHT**  
120MM OR <



**MEDIUM**  
>120MM BUT  
NOT >160MM



**HEAVY**  
>160MM BUT  
NOT >210MM

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### EQUIPMENT SYMBOLS VEHICLES

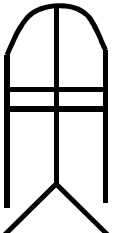
<p><b>TANKS</b></p> <p>GENERIC</p> <p>LIGHT</p> <p>MEDIUM</p> <p>HEAVY</p>	<p>APC</p> <p>UTILITY VEHICLE</p> <p>UTILITY VEHICLE - CROSS COUNTRY</p>	<p>ARMORED FIGHTING VEHICLE</p> <p>ARMORED WHEELED FIGHTING VEHICLE</p>
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### Building a symbol


#### ANTITANK MISSILE LAUNCHER

JAVELIN  
WEAPON SYSTEM  
ANTI ARMOR / TANK  
MISSILE  
CALIBER / RANGE











### EQUIPMENT SYMBOLS VEHICLES

2






2 x ENY  
HEAVY HOWITZERS  
FACING WEST

### MOBILITY INDICATORS

 <p>WHEELED (LIMITED MOBILITY)</p>	 <p>WHEELED (CROSS COUNTRY)</p>	 <p>TRACKED</p>	 <p>TOWED</p>
		 <p>PACK ANIMAL</p>	 <p>OVER SNOW (PRIME MOVER)</p>
 <p>LIGHT MG ON TRACKED VEHICLE (NO FRAME USED)</p>	 <p>LIGHT MG ON TRACKED VEHICLE (FRAME USED)</p>		

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### OBSTACLES/MINES

 <p>AP</p>	 <p>AT</p>	 <p>UNSPECIFIED</p>
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FM 1-02

