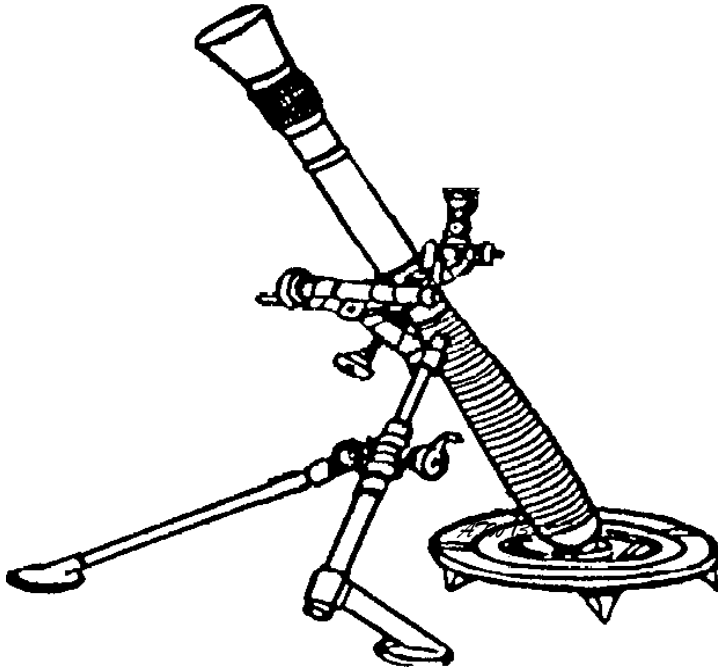


TEAM DRILL #3

81mm M16 PLOTTING BOARD BASIC PROCEDURES



**UNITED STATES ARMY INFANTRY SCHOOL
INFANTRY MORTAR LEADER COURSE
MTR CO 1ST BATTALION 19TH INFANTRY REGIMENT
FT. BENNING, GEORGIA 31905
AUGUST 2021**

TEAM DRILL #3

FIRING CHARTS (81mm)

PURPOSE: This team drill is intended to give the student a working knowledge of the techniques used in computing on all firing charts. When you have successfully completed this drill, you will have the basic working knowledge required of an FDC computer utilizing all of the firing charts.

REFERENCES:

TC 3-22.91

ATP: 3-09.30

FT. BENNING MAP

For use of this form, see TC 23-91. The proponent agency is TRADOC.

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[illegible]

Situation B: Before you can relocate, another FO calls for fire. Compute the mission and update your Data sheet.

COMPUTER'S RECORD

For use of this form, see TC 3-22.91; the proponent agency is TRADOC

[illegible]

BATTLE DAMAGE ASSESSMENT (BDA):	EST 30% CASUALTIES
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AIM POINT GRID:

DA FORM 2399, MAY 2017

PREVIOUS EDITIONS ARE OBSOLETE.

APD LC v1.00

General Situation Continued: You have moved into a temporary location vicinity 1527 8018 and are expected to remain in this location for an unknown period of time. Set up a Modified Observed chart using the info below.

[illegible]

Situation C: You receive the following call for fire. Compute the mission and update your data sheet.

COMPUTER'S RECORD											
For use of this form, see TC 3-22.91; the proponent agency is TRADOC											
ORGANIZATION SITUATION C				DATE		TIME		OBSERVER ID A 61		TARGET NUMBER BD 0502	
☒ ADJUST FIRE ☐ FIRE FOR EFFECT ☐ IMMEDIATE SUPPRESSION				SHIFT FROM _____ OT DIRECTION _____ ALTITUDE _____ ☐ LEFT / ☐ RIGHT ☐ ADD / ☐ DROP ☐ UP / ☐ DOWN				POLAR OT DIRECTION 6400 ALTITUDE _____ DISTANCE 1100 VERTICAL INTERVAL ☒ UP / ☐ DOWN 625 VERTICAL ANGLE ☐ + ☐			
GRID _____ OT DIRECTION _____ ALTITUDE _____											
TARGET DESCRIPTION COMPANY IN OPEN											
METHOD OF ENGAGEMENT PROX I/FFE											
FDC ORDER			INITIAL CHART DATA				INITIAL FIRE COMMAND				ROUNDS EXPENDED
MORTAR TO FFE SEC			DEFLECTION _____				MORTAR TO FOLLOW _____				
MORTAR TO ADJ #2			DEFLECTION CORRECTION ☐ L ☐ R				SHELL AND FUZE _____				
METHOD OF ADJ 1 RD			RANGE _____				MORTAR TO FIRE _____				
BASIS FOR CORRECTION _____			VI/ALT CORRECTION ☐ + ☐ -				METHOD OF FIRE _____				
SHEAF CORRECTION _____			RANGE CORRECTION ☐ + ☐ -				DEFLECTION _____				MAX ORD
SHELL AND FUZE HEQ I/ADJ			CHARGE _____				CHARGE _____				TOF
PROX I/FFE			RANGE _____				ELEVATION _____				
METHOD OF FFE 5 RDS			AZIMUTH _____				TIME SETTING _____				MARK TIME
RANGE LATERAL SPREAD _____			ANGLE T _____								
TIME OF OPENING FIRE W / R											
MOC TYPE WR ☒ AMC ☐ TOT ☐ OTH ☐											
OBSERVER CORRECTION			CHART/SAFETY DATA			SUBSEQUENT COMMANDS					
DEV	RANGE	TIME (HEIGHT)	DEF/AZ	RANGE	MORTAR FIRE	METHOD FIRE	AIM AZIMUTH	DEFLECTION	CHARGE	TIME	ELEV
L20	+100										
L20	-50	FFE									
				EOM							
BATTLE DAMAGE ASSESSMENT (BDA): EST. 10% CASUALTIES AIM POINT GRID:											
DA FORM 2399, MAY 2017 PREVIOUS EDITIONS ARE OBSOLETE. APD LC v1.00											

[illegible]

General Situation Continued: You have moved into a new position and your Platoon Leader instructs you to set up a Surveyed chart using the information below.

DATA SHEET																			
GI: 14 / 80						For use of this form, see TC 23-91. The proponent agency is TRADOC.													
SETUP						WEAPON DATA								FO DATA					
TIME OUT:						UNIT:		WPN :		WPN :		FO		ALT		GRID			
TGT PREFIX: BD																			
TGT NO: 0500-0600						81 MM CAR ☐ YES		DIR :		DIR :									
ALARM ☐ ON ☐ OFF																			
MIN E:						BP:		WPN :		WPN :									
MIN N:																			
GD: ☐ E ☐ W						E: 1398		DIR :		DIR :									
LAT: ☐ + ☐ -																			
LISTEN: ☐ ON ☐ OFF						ALT: 530		WPN :		WPN :									
BIT RATE																			
KEY TONE						AZ: 0700		DIR :		DIR :									
BLK ☐ SNG ☐ DBL																			
OWNER ID:						ELE:		DIS :		DIS :									
AMMUNITION DATA																			
TEMPERATURE: 80 Degrees TYPE: ☒ HE ☐ WP ☐ ILL ☐ CS ☐ TNG ☒ RP																			
LOT#		M821		M819RP															
WHEIGHT/ TYPE																			
ON HAND																			
RECEIVED																			
TOTAL																			
ROUNDS EXPENDED																			
ROUNDS REMAINING																			
TARGET DATA																			
TARGET ID			CHART DATA		FIRING CORRECTIONS				FIRING DATA				INTELLIGENCE				ROUND		
TGT #	GRID	ALT	DEFI	RNG /CHG	DEFL CORR	RNG CORR	ALT VI	ALT CORR	DEFL	RNG /CHG	F.S.	ELE	TIME FIRED	TARGET DESCRIPTION	METHOD OF ENGAGEMENT	SURV	EXP		
RP1	1561 8003	600																	
BD 0504																			
UPDATE AFTER RE-REGISTRATION																			
Re-Reg	1561 8003	600																	
RP1																			
BD 0504																			

COMPUTER'S RECORD															
ORGANIZATION SITUATION E								DATE		TIME		OBSERVER ID A 60		TARGET NUMBER RP 1	
☒ ADJUST FIRE ☐ FIRE FOR EFFECT ☐ IMMEDIATE SUPPRESSION				SHIFT FROM _____ OT DIRECTION _____ ALTITUDE _____ ☐ LEFT / ☐ RIGHT _____ ☐ ADD / ☐ DROP _____ ☐ UP / ☐ DOWN _____				POLAR OT DIRECTION _____ ALTITUDE _____ DISTANCE _____ VERTICAL INTERVAL _____ ☐ UP / ☐ DOWN VERTICAL ANGLE _____ ☐ + ☐ _____							
GRID 1561 / 8003 OT DIRECTION 0500 ALTITUDE 600															
TARGET DESCRIPTION Registration Point 1															
METHOD OF ENGAGEMENT															
FDC ORDER				INITIAL CHART DATA				INITIAL FIRE COMMAND				ROUNDS EXPENDED			
MORTAR TO FFE SEC				DEFLECTION _____				MORTAR TO FOLLOW _____				MAX ORD TOF MARK TIME			
MORTAR TO ADJ #2				DEFLECTION CORRECTION ☐ L ☐ R				SHELL AND FUZE _____							
METHOD OF ADJ 1 RD				RANGE _____				MORTAR TO FIRE _____							
BASIS FOR CORRECTION _____				VI/ALT CORRECTION ☐ + ☐ -				METHOD OF FIRE _____							
SHEAF CORRECTION _____				RANGE CORRECTION ☐ + ☐ -				DEFLECTION _____							
SHELL AND FUZE HEQ				CHARGE _____				CHARGE _____							
METHOD OF FFE _____				RANGE _____				ELEVATION _____							
RANGE LATERAL SPREAD _____				AZIMUTH _____				TIME SETTING _____							
TIME OF OPENING FIRE W/R				ANGLE T _____											
MOC TYPE WR ☒ AMC ☐ TOT ☐ OTH ☐															
OBSERVER CORRECTION				CHART/SAFETY DATA				SUBSEQUENT COMMANDS							
DEV	RANGE	TIME (HEIGHT)	DEF/AZ	RANGE	MORTAR FIRE	METHOD FIRE	AIM AZIMUTH	DEFLECTION	CHARGE	TIME	ELEV				
R20	-50														
	-25	EOM R/C													
S / L															
#3	R40	SHEAF ADJUSTED													
BATTLE DAMAGE ASSESSMENT (BDA):	R/C S/A					AIM POINT GRID:									
DA FORM 2399, MAY 2017 PREVIOUS EDITIONS ARE OBSOLETE.															
APD LC v1.00															

[illegible]

Situation G: 4 hours after firing the initial registration, your PL directs you to conduct a reregistration on RP1. No concurrent METs are available. Determine the new Rng Corr, RCF, and DEFK for all TGTs and Data sheet.

[illegible]

Situation H: You received the following MET message. Your Platoon leader instructs you to compute the MET but do not use at this time.

METB31	356972
131320	045976
002210	038967
012306	047968
022520	055970
032916	037973
042009	050977
052821	047979
063010	063979

BALLISTIC MET MESSAGE									
For use of this form, see FM 6-15; the proponent agency is TRADOC.									
IDENTIFICATION	TYPE MSG	OCTANT	LOCATION		DATE	TIME (GMT)	DURATION (HOURS)	STATION HEIGHT (10's M)	MDP PRESSURE % OF STD
METB	K	Q	L ₁ L ₂ L ₃ or xxx	L ₄ L ₅ L ₆ or xxx	YY	G ₀ G ₁ G ₂	G	hhh	PPP
METB									
ZONE HEIGHT (METERS)	LINE NUMBER ZZ	BALLISTIC WINDS		BALLISTIC AIR					
		DIRECTION (100's MILS) dd	SPEED (KNOTS) FF	TEMPERATURE (% OF STD) TTT	DENSITY (% OF STD) ΔΔΔ				
SURFACE	00								
200	01								
500	02								
1000	03								
1500	04								
2000	05								
3000	06								
4000	07								
5000	08								
6000	09								
8000	10								
10000	11								
12000	12								
14000	13								
16000	14								
18000	15								
REMARKS									
DELIVERED TO: RECEIVED FROM:						TIME (GMT)		TIME (LST)	
MESSAGE NUMBER					DATE				
RECORDER					CHECKED				

DA FORM 3675
1 JAN 71

REPLACES DA FORM 6-57, 1 MAR 62, WHICH IS OBSOLETE.

FOR USE OF THIS FORM, SEE FM 23-91, THE PROPONENT AGENCY IS US CONTINENTAL ARMY COMMAND

DA	FORM 1 OCT 71	2601-1-R
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REPLACES DA FORM 2601-1, 1 JUN 67, WHICH IS OBSOLETE.

SITUATION I: Two hours later, you receive a subsequent second MET and after computing it, you determine that the corrections for this MET are **R28, +70**.

Compare this correction and determine MET corrections to apply to the initial RP Data.

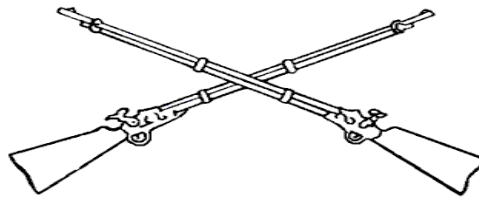
SITUATION J: Several hours later, you receive a third MET and determine the corrections to apply for this MET are **R20, -20**.

Compare this correction and determine MET corrections to apply to the initial RP Data.

SITUATION K: After computing the METs, the Platoon Leader instructs you to update your Data Sheet.

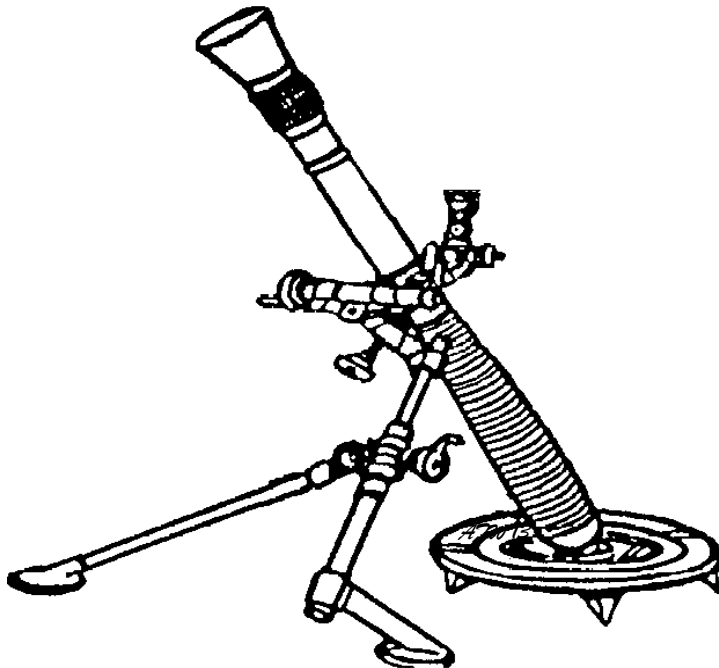
Determine new RCFs and update your Data Sheet.

[illegible]



TEAM DRILL #3 SOLUTIONS

81mm M16 PLOTTING BOARD BASIC PROCEDURES



**UNITED STATES ARMY INFANTRY SCHOOL
INFANTRY MORTAR LEADER COURSE
MTR CO 1ST BATTALION 19TH INFANTRY REGIMENT
FT. BENNING, GEORGIA 31905
AUGUST 2021**

For use of this form, see TC 23-91. The proponent agency is TRADOC.

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For use of this form, see TC 3-22.91; the proponent agency is TRADOC

APD LC v1.00

For use of this form, see TC 3-22.91; the proponent agency is TRADOC

APD LC v1.00

For use of this form, see TC 23-91. The proponent agency is TRADOC.

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For use of this form, see TC 3-22.91; the proponent agency is TRADOC

APD LC v1.00

COMPUTER'S RECORD

For use of this form, see TC 3-22.91; the proponent agency is TRADOC

ORGANIZATION SITUATION D			DATE		TIME		OBSERVER ID A 61		TARGET NUMBER BD 0503		
☒ ADJUST FIRE ☐ FIRE FOR EFFECT ☐ IMMEDIATE SUPPRESSION			SHIFT FROM BD 0502			POLAR OT DIRECTION _____ ALTITUDE _____					
GRID _____ OT DIRECTION _____ ALTITUDE _____			OT DIRECTION 6100 ALTITUDE _____			DISTANCE _____ VERTICAL INTERVAL _____ ☐ UP / ☐ DOWN VERTICAL ANGLE _____ ☐ + ☐ _____					
☐ LEFT / ☒ RIGHT 200 ☐ ADD / ☒ DROP 200 ☐ UP / ☒ DOWN 150											
TARGET DESCRIPTION MACHINEGUN NEST											
METHOD OF ENGAGEMENT											
FDC ORDER			INITIAL CHART DATA			INITIAL FIRE COMMAND			ROUNDS EXPENDED		
MORTAR TO FFE SEC			DEFLECTION 2758			MORTAR TO FOLLOW SEC			1		
MORTAR TO ADJ #2			DEFLECTION CORRECTION ☐ L ☐ R			SHELL AND FUZE HEQ					
METHOD OF ADJ 1 RD			RANGE 3575			MORTAR TO FIRE #2					
BASIS FOR CORRECTION CONV #2			VI/ALT CORRECTION +520			METHOD OF FIRE 1 RD I/ADJ			MAX ORD		
SHEAF CORRECTION _____			☒ + ☐ - +260			2 RDS I/FFE			2025m		
SHELL AND FUZE HEQ			RANGE CORRECTION ☐ + ☐ -			DEFLECTION 2758			TOF		
METHOD OF FFE 2 RDS			CHARGE 3			CHARGE 3			40.9		
RANGE LATERAL SPREAD _____			RANGE 3825			ELEVATION 1092			MARK TIME		
TIME OF OPENING FIRE W/R			AZIMUTH 6242			TIME SETTING _____					
MOC TYPE WR ☒ AMC ☐ TOT ☐ OTH ☐			ANGLE T 140								
OBSERVER CORRECTION			CHART/SAFETY DATA			SUBSEQUENT COMMANDS					
DEV	RANGE	TIME (HEIGHT)	DEF/AZ	RANGE	MORTAR FIRE	METHOD FIRE	AIM AZIMUTH	DEFLECTION	CHARGE	TIME	ELEV
				+260							
L 50	+50	FFE	2776	3600	SEC	2 RDS		#1 2787			
								#2 2776			
								#3 2765			
								#4 2754	3850		1087
					EOM						

BATTLE DAMAGE ASSESSMENT (BDA): **TARGET DESTROYED**

AIM POINT GRID:

DA FORM 2399, MAY 2017

PREVIOUS EDITIONS ARE OBSOLETE.

APD LC v1.00

GI: 14 / 80

DATA SHEET

For use of this form, see TC 23-91. The proponent agency is TRADOC.

SETUP			WEAPON DATA				FO DATA										
TIME OUT:			UNIT:	WPN :	WPN :	EO	ALT	GRID									
TGT PREFIX: BD						DIR :	DIR :										
TGT NO: 0500-0600			81 MM CAR ☐ YES	DIS :	DIS :												
ALARM ☐ ON ☐ OFF			M252 ☒ NO														
MIN E:			BP: #2	WPN :	WPN :												
MIN N:						DIR :	DIR :										
GD: ☐ E ☐ W			E: 1398	DIS :	DIS :												
LAT: ☐ + ☐ -			N: 7807														
LISTEN: ☐ ON ☐ OFF			ALT: 530	WPN :	WPN :												
BIT RATE			AZ: 0710 / 0700			DIR :	DIR :										
KEY TONE			DEF: 0700	DIS :	DIS :												
BLK ☐ SNG ☐ DBL			ELE:														
OWNER ID:																	
AMMUNITION DATA																	
TEMPERATURE: 80 Degrees TYPE: ☒ HE ☐ WP ☐ ILL ☐ CS ☐ TNG ☒ RP																	
LOT#		M821	M819RP														
WEIGHT/ TYPE																	
ON HAND																	
RECEIVED																	
TOTAL																	
ROUNDS EXPENDED																	
ROUNDS REMAINING																	
TARGET DATA																	
TARGET ID			CHART DATA		FIRING CORRECTIONS			FIRING DATA			INTELLIGENCE			ROUND			
TGT #	GRID	ALT	DEF	RNG /CHG	DEFL CORR	RNG CORR	ALT VI	ALT CORR	DEFL	RNG /CHG	F.S.	ELE	TIME FIRED	TARGET DESCRIPTION	METHOD OF ENGAGEMENT	SURV	EXP
RP1	1561 8003	600	0690	2550	R15	-75	600 +70	+35	0675	2500 2		1170		RP1	SEC 1 RD HE	REG COMP SHF ADJ	5
BD 0504			0581	3325	R15	-96	480 -50	-25	0566	3200 2		0963		P.I.O.	SEC 3 RDS PROX	EST 30% CAS	13
UPDATE AFTER RE-REGISTRATION																	
Re-Reg	RP1	1561 8003	600	0690	2550	L6	-60	600 +70	+35	0696	2525 2		1165				3
BD 0504			0581	3325	L6	-76	480 -50	-25	0587	3225 2		0951					

COMPUTER'S RECORD

For use of this form, see TC 3-22.91; the proponent agency is TRADOC

ORGANIZATION SITUATION E	DATE	TIME	OBSERVER ID A 60	TARGET NUMBER RP 1
☒ ADJUST FIRE ☐ FIRE FOR EFFECT ☐ IMMEDIATE SUPPRESSION	SHIFT FROM _____		POLAR OT DIRECTION _____ ALTITUDE _____	
GRID 1561 / 8003 OT DIRECTION 0500 ALTITUDE 600	OT DIRECTION _____ ALTITUDE _____ ☐ LEFT / ☐ RIGHT ☐ ADD / ☐ DROP ☐ UP / ☐ DOWN		DISTANCE _____ VERTICAL INTERVAL ☐ UP / ☐ DOWN VERTICAL ANGLE ☐ + ☐	

TARGET DESCRIPTION **Registration Point 1**

METHOD OF ENGAGEMENT **MTO: Prepare to Register RP1**

FDC ORDER	INITIAL CHART DATA	INITIAL FIRE COMMAND	ROUNDS EXPENDED
MORTAR TO FFE SEC	DEFLECTION 0690	MORTAR TO FOLLOW SEC	(1)
MORTAR TO ADJ #2	DEFLECTION CORRECTION ☐ L ☐ R	SHELL AND FUZE HEQ	
METHOD OF ADJ 1 RD	RANGE 2550	MORTAR TO FIRE #2	
BASIS FOR CORRECTION _____	V/ALT CORRECTION +70	METHOD OF FIRE 1 RD	MAX ORD
SHEAF CORRECTION _____	☒ + ☐ - +35	DEFLECTION 0690	1526m
SHELL AND FUZE HEQ	RANGE CORRECTION ☐ + ☐ -	CHARGE 2	TOF
METHOD OF FFE _____	CHARGE 2	ELEVATION 1153	35.4
RANGE LATERAL SPREAD _____	RANGE 2575	TIME SETTING _____	MARK TIME
TIME OF OPENING FIRE W/R	AZIMUTH 0710		
MOC TYPE WR ☒ AMC ☐ TOT ☐ OTH ☐	ANGLE T 210		

OBSERVER CORRECTION			CHART/SAFETY DATA		SUBSEQUENT COMMANDS						
DEV	RANGE	TIME (HEIGHT)	DEF/AZ	RANGE +35	MORTAR FIRE	METHOD FIRE	AIM AZIMUTH	DEFLECTION	CHARGE	TIME	ELEV
R20	-50		0678	2500				0678	2525		1165
	-25	EOM R/C	0675	2475	PREPARE TO ADJUST SHEAF						
S / L					SEC	1 RD S/L		0675	2500		1170
#3	R40	SHEAF ADJUSTED			#3	DNF		0659			
					SEC	REFER		0675	R/A A/P		
DEF CORR			RNG CORR								
Initial chart 0690			Initial 2550								
Final chart - 0675			Final - 2475								
R15			-75								
RCF: -75 Divided by 2.6= -28.8 = -29											

Situation F: After completing the Registration mission and updating your data sheet, you receive the following call for fire. Compute the mission and update your data sheet.

COMPUTER'S RECORD For use of this form, see TC 3-22.91; the proponent agency is TRADOC											
ORGANIZATION SITUATION F				DATE		TIME		OBSERVER ID A 61		TARGET NUMBER BD 0504	
☒ ADJUST FIRE ☐ FIRE FOR EFFECT ☐ IMMEDIATE SUPPRESSION				SHIFT FROM RP 1 OT DIRECTION 0720 ALTITUDE _____				POLAR OT DIRECTION _____ ALTITUDE _____ DISTANCE _____ VERTICAL INTERVAL ☐ UP / ☐ DOWN VERTICAL ANGLE ☐ + ☐ _____			
GRID _____ OT DIRECTION _____ ALTITUDE _____				☐ LEFT / ☒ RIGHT 300 ☒ ADD / ☐ DROP 700 ☐ UP / ☒ DOWN 120							
TARGET DESCRIPTION PLATOON I/O											
METHOD OF ENGAGEMENT											
FDC ORDER			INITIAL CHART DATA				INITIAL FIRE COMMAND				ROUNDS EXPENDED
MORTAR TO FFE SEC			DEFLECTION 0595				MORTAR TO FOLLOW SEC				1
MORTAR TO ADJ #2			DEFLECTION CORRECTION ☐ L ☒ R R15				SHELL AND FUZE HEQ				
METHOD OF ADJ 1 RD			RANGE 3275				MORTAR TO FIRE #2				
BASIS FOR CORRECTION RP1			VI/ALT CORRECTION -50				METHOD OF FIRE 1 RD I/ADJ				MAX ORD
SHEAF CORRECTION _____			☐ + ☒ - -25				3 RDS PROX I/FFE				1275
SHELL AND FUZE HEQ I/ADJ			RANGE CORRECTION -96				DEFLECTION 0580				TOF
PROX I/FFE			☐ + ☒ - -121				CHARGE 2				
METHOD OF FFE 3 RDS			CHARGE 2				ELEVATION 0984				
RANGE LATERAL SPREAD _____			RANGE 3150				TIME SETTING _____				MARK TIME
TIME OF OPENING FIRE W/R			AZIMUTH 0805								
MOC TYPE WR ☒ AMC ☐ TOT ☐ OTH ☐			ANGLE T 90								
OBSERVER CORRECTION			CHART/SAFETY DATA		SUBSEQUENT COMMANDS						
DEV	RANGE	TIME (HEIGHT)	DEF/AZ	RANGE	MORTAR FIRE	METHOD FIRE	AIM AZIMUTH	DEFLECTION	CHARGE	TIME	ELEV
R50	+50	FFE	R15 0581	-121 3325	SEC	3 RDS PROX		0566	3200		0963
											13
INT CHT RNG 3275 Expressed in thousands 3.3 3.3 x -29 (RCF)=-95.7 Rng Corr + -25 (Alt Cor)= -121 TRC											
BATTLE DAMAGE ASSESSMENT (BDA): EST 30% CASUALTIES AIM POINT GRID: _____ DA FORM 2399, MAY 2017 PREVIOUS EDITIONS ARE OBSOLETE. APD LC v1.00											

Situation G: 4 hours after firing the initial registration, your PL directs you to conduct a reregistration on RP1. No concurrent METs are available. Determine the new Rng Corr, RCF, and DEFK for all TGTs and Data sheet.

COMPUTER'S RECORD For use of this form, see TC 3-22.91; the proponent agency is TRADOC											
ORGANIZATION SITUATION G				DATE		TIME		OBSERVER ID		TARGET NUMBER RE-REG RP1	
☒ ADJUST FIRE ☐ FIRE FOR EFFECT ☐ IMMEDIATE SUPPRESSION				SHIFT FROM _____				POLAR			
GRID _____ OT DIRECTION 0500 ALTITUDE _____				OT DIRECTION _____ ALTITUDE _____				OT DIRECTION _____ ALTITUDE _____			
				☐ LEFT / ☐ RIGHT _____ ☐ ADD / ☐ DROP _____ ☐ UP / ☐ DOWN _____				DISTANCE _____ VERTICAL INTERVAL ☐ UP / ☐ DOWN VERTICAL ANGLE ☐ + ☐ _____			
				TARGET DESCRIPTION RP1				METHOD OF ENGAGEMENT MT0: Prepare to Re-Reg RP1			
FDC ORDER			INITIAL CHART DATA			INITIAL FIRE COMMAND			ROUNDS EXPENDED		
MORTAR TO FFE #2			DEFLECTION 0690			MORTAR TO FOLLOW #2			①		
MORTAR TO ADJ _____			DEFLECTION CORRECTION			SHELL AND FUZE HEQ					
METHOD OF ADJ 1 RD			☐ L ☒ R 15			MORTAR TO FIRE _____			MAX ORD 1548		
BASIS FOR CORRECTION RP1			RANGE 2550			METHOD OF FIRE 1 RD					
SHEAF CORRECTION _____			VI/ALT CORRECTION +70			DEFLECTION 0675			TOF 35.7		
SHELL AND FUZE HEQ			☒ + ☐ - +35			CHARGE 2					
METHOD OF FFE _____			RANGE CORRECTION -75			ELEVATION 1170			MARK TIME		
RANGE LATERAL SPREAD _____			☐ + ☒ - -40			TIME SETTING _____					
TIME OF OPENING FIRE W/R			CHARGE 2			ANGLE T 210					
MOC TYPE WR ☒ AMC ☐ TOT ☐ OTH ☐			RANGE 2500								
OBSERVER CORRECTION			CHART/SAFETY DATA			SUBSEQUENT COMMANDS					
DEV	RANGE	TIME (HEIGHT)	DEF/AZ	RANGE	MORTAR FIRE	METHOD FIRE	AIM AZIMUTH	DEFLECTION	CHARGE	TIME	ELEV
L50	+100		R15 0720	-40 2650				0705	2600		1147
	-50		0709	2600				0694	2550		1159
	-25	EOM	0711	2575		DNF		0696	2525		
									-35		
							ADJ CMD	2490			
DEFK			RNG CORR								
Initial Chart 0690			Initial Chart 2550								
Final Command 0696			Adjusted Command 2490			RCF: -60 divided by 2.6= -23.07= -23 (2550=2.6)					
= L06			= -60								
BATTLE DAMAGE ASSESSMENT (BDA): ReReg Complete AIM POINT GRID:											

BALLISTIC MET MESSAGE									
For use of this form, see FM 6-15; the proponent agency is TRADOC.									
IDENTIFICATION	TYPE MSG	OCTANT	LOCATION		DATE	TIME (GMT)	DURATION (HOURS)	STATION HEIGHT (10's M)	MDP PRESSURE % OF STD
METB	K	Q	L ₁ L ₂ L ₃ or xxx	L ₄ L ₅ L ₆ or xxx	YY	G ₀ G ₁ G ₂	G	hhh	PPP
METB	3	1	356	972	13	132	0	045	976
ZONE HEIGHT (METERS)	LINE NUMBER ZZ	BALLISTIC WINDS		BALLISTIC AIR					
		DIRECTION (100's MILS) dd	SPEED (KNOTS) FF	TEMPERATURE (% OF STD) TTT	DENSITY (% OF STD) ΔΔΔ				
SURFACE	00	22	10	038	967				
200	01	23	06	047	968				
500	02	25	20	055	970				
1000	03	29	16	037	973				
1500	04	20	09	050	977				
2000	05	28	21	047	979				
3000	06	30	10	063	979				
4000	07								
5000	08								
6000	09								
8000	10								
10000	11								
12000	12								
14000	13								
16000	14								
18000	15								
REMARKS									
DELIVERED TO: RECEIVED FROM:						TIME (GMT)		TIME (LST)	
MESSAGE NUMBER				DATE					
RECORDER				CHECKED					

DA FORM 3675
1 JAN 71

REPLACES DA FORM 6-57, 1 MAR 62, WHICH IS OBSOLETE.

MET DATA CORRECTION SHEET FOR MORTARS

FOR USE OF THIS FORM, SEE FM 23-91, THE PROPONENT AGENCY IS US CONTINENTAL ARMY COMMAND

COMMAND DATA			MET MESSAGE			
CHARGE 2	COMMAND RANGE 2500	ELEVATION 1170	TYPE 3	STATION	DATE	
ALT OF MORTARS (m) 530			TIME	ALT MDP	LINE NUMBER 4	
ALT OF MDP 450			WIND DIRECTION 2000	WIND VELOCITY 09	AIR TEMP 105.0	AIR DENSITY 97.7
ABOVE + SECTION MDP ▲ H BELOW -		+ 80	▲ H CORRECTIONS		▲ T + .2	▲ D + .8
			CORRECTED VALUES		104.8	96.9
WIND COMPONENTS AND DEFLECTION CORRECTION						
WHEN DIRECTION OF WIND IS LESS THAN DIRECTION OF FIRE ADD		6400				
DIRECTION OF WIND		2000				
DIRECTION OF FIRE		0700				
CHART DIR OF WIND		1300				
CROSS WIND 09 VELOCITY X L .96 COMPONENT = L 8.64 KNOTS X 1.4 CORR FACTOR = R12 DEFL CORR						
RANGE WIND 09 VELOCITY X T .29 COMPONENT = T 2.61 KNOTS RANGE WIND						
MET RANGE CORRECTIONS						
	KNOWN VALUE	STANDARD VALUES	VARIATION FROM STANDARD	UNIT CORRECTIONS	PLUS	MINUS
POWDER TEMP	▲ V_ .5	0	D .5	-17.2		9
RANGE WIND	T 2.61	0	T 2.61	5.0	13	
AIR TEMP	104.8	100	D 4.8	-0.2		1
AIR DENSITY	96.9	100	D 3.1	-6.0		19
WT OF PROJECTILE	☐	2 ☐	D			
MET CORRECTION TO APPLY					TOTAL	
					13	29
						13
RANGE CORR						16
LAST MESSAGE	L R	+-				
THIS MESSAGE	L 12	+ - 16				
CORR TO APPLY	L R	+-				

[illegible]