

KNOWN DISTANCE INTRO

Sight Adjustments at 25 Yards

1. Identify the group and its center.
2. Identify how many inches you would like your group to move up or down (elevation) and how many inches you would like your group to move left or right (windage).
3. Convert inches to MOA; **0.25" @ 25Y = 1 MOA**
4. Dial in Clicks on sights or scope
 - Most scopes are four clicks per MOA
 - Service-style iron sights are often one click per MOA
 - Some iron sights may have finer adjustments

Basic Ballistics

Your rifle bullet leaves the barrel, travels up, crosses the line of your sights ("near zero") reaches its apogee, begins to fall, crosses the line of your sights again ("far zero"), then continues to fall.

Many variables impact this; sight height above the barrel is key.

	100 Yards	200 Yards	300 Yards	400 Yards
Centerfire Low Sights	3 MOA	3 MOA	4 MOA	4 MOA
Centerfire High Sights	2 MOA	2 MOA	3 MOA	3 MOA
Rimfire Med Sights	0 MOA 25 Yards	0 MOA 50 Yards	2.5 MOA 75 Yards	2.5 MOA 75 Yards

Data on Personal Equipment ("DOPE")

You will need to collect data on where your rifle groups at different ranges. Take note of the ammunition, rifle, sight/scope, and conditions. Write down where your rifle groups at various ranges.



Midnight Rider Marksmen
www.HitsCount.org

Basic Rifle Student Booklet



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SAFETY PROCEDURES

Safe Firearms Handling

1. Always Keep The Gun Pointed in a Safe Direction
2. Always Keep Your Finger Off The Trigger Until You Are Ready to Shoot
3. Always Keep The Gun Unloaded Until Ready to Use

Additional Rules & Procedures for Safe Firearms Use and Storage

- Know your target and what is beyond.
- Know how to safely use the gun
- Be sure the gun is safe to operate.
- Use only the correct ammunition for your gun.
- Wear eye and ear protection.
- Never use alcohol or drugs before or while shooting.
- Store guns so that they are not accessible to unauthorized persons.

Unloading and Clearing Firearms

- **Unload:** Remove all ammunition and the magazine
- **Bolt Open:** Lock the bolt to the rear, empty chamber
- **Safety On:** Activate safety
- **Chamber Flag:** Install Empty Chamber Indicator
- **Ground & Clear:** Set rifle down and step behind gear line

BASIC RIFLE PILLARS

Five Rifle Shooting Fundamentals

1. Aiming
 - a. Sight alignment (*Iron Sights vs. Scope*)
 - b. Sight picture (*6:00 or Center of Mass*)
2. Breath Control: *Bottom of breath cycle, 6-8 seconds*
3. Hold Control: *Focus, concentration, consistency*
4. Trigger Control: *Gently squeeze*
5. Follow Through: *Deliberately "reset" trigger, call shot*

Shooting Positions

1. Prone: *Pivot around support elbow*
2. Sitting: *Remember "flat on flat"*
 - a. *Cross Legged*
 - b. *Open Legged*
 - c. *Kneeling*
3. Standing: *Pivot around front foot*
4. Aids to Stability
 - a. *Loop Sling*
 - b. *Hasty Sling*
 - c. *Supported*

Natural Point of Aim

"Where the relaxed body will naturally place the shot"

Breath in – close eyes – breath out – open eyes

If not on target, adjust body position to move sights on target

Relaxed, repeatable, cadence – no muscle inputs!