

## PROOFING TEAM CERTIFICATION TEST

1. \_\_\_\_\_ is the primary armor defeating round.
2. Heat rounds are primarily used against \_\_\_\_\_, \_\_\_\_\_, and \_\_\_\_\_.
3. Target practice ammunition is nearly ballistically matched to service rounds out to approximately \_\_\_\_\_.
4. Battlecarry range is that range in which targets \_\_\_\_\_.
5. If the fire control system is fully operational, the \_\_\_\_\_ method is preferred for subsequent rounds after a first round miss.
6. The standard adjustment for both elevation and deflection will not be less than a \_\_\_\_\_ or more than \_\_\_\_\_.
7. What are the three types of gunnery techniques? \_\_\_\_\_, \_\_\_\_\_, and \_\_\_\_\_.
8. What are the automatic inputs in the ballistic computer ? \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, and \_\_\_\_\_.
9. What are the manual inputs in the ballistic computer ? \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, and \_\_\_\_\_.
10. Standard lead for sabot is \_\_\_\_\_.
11. Standard lead for HEAT is \_\_\_\_\_.
12. When engaging an area target with the coax machine gun, immediately after lasing the gunner should \_\_\_\_\_ by quickly releasing then re-engaging the palm switches.

13. What is the maximum range of the coax machine gun ? \_\_\_\_\_.
14. What is the maximum effective range of the M2HB machine gun ? \_\_\_\_\_.
15. The live fire prerequisite for simulations is \_\_\_\_\_ in the COFT and \_\_\_\_\_ in the AFIST.
16. Before firing Tank Table IV each crewmen must have completed \_\_\_\_\_ within six months.
17. Before firing Tank Table VIII each crewmen must have qualified \_\_\_\_\_ in the position he will occupy during qualification.
18. What is the maximum score a crew can receive for a second run on Tank Table VIII ? \_\_\_\_\_.
19. Can Tank Table IV be conducted in the COFT or AFIST ? \_\_\_\_\_.
20. Fire control system calibration consists of \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_.
21. The tank crew should conduct a collimation check before \_\_\_\_\_.
22. Crews can check for boresight loss by conducting a \_\_\_\_\_.
23. When a crew cannot re-boresight an \_\_\_\_\_ is done to correct for boresight loss.
24. \_\_\_\_\_ help to ensure that the fire control system is fully operational, special inputs and ballistic solutions are implemented properly.
25. To ensure the most accurate measurements, the screening test target should be exactly \_\_\_\_\_ and at \_\_\_\_\_ meters.
26. The coax is zeroed at \_\_\_\_\_ meters.
27. The M2HB is boresighted at \_\_\_\_\_ meters.

28. The \_\_\_\_\_ is used to precisely measure the pointing elevation of the main gun.
29. When conducting Armament Accuracy Checks # 4 and 5, the position of the aiming point is recorded on the \_\_\_\_\_.
30. Armament Accuracy Check panels are placed \_\_\_\_\_ meters from the front edge of the tank.
31. A \_\_\_\_\_ is conducted at the start of every live fire training cycle or when a major fire control system component is replaced.
32. Boresighting is simply an alignment process by which the \_\_\_\_\_ and \_\_\_\_\_ are referred to the same point.
33. During the long periods between the time the system is boresighted and the time the tank is fired, boresight loss may occur due to the changes in \_\_\_\_\_.
34. \_\_\_\_\_ refine the computer ballistic solutions.
35. When boresighting, if the reticle must be moved more than \_\_\_\_\_ to reach alignment, recheck the procedure.
36. The following must be completed before the screening test: \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_.
37. To pass the screening test, one round for each ammunition type must hit the target fully within the \_\_\_\_\_.
38. During the screening test if round strikes are separated by more than the \_\_\_\_\_, the tank is firing erratically and the problem must be fixed.
39. A muzzle reference sensor update can be accomplished only if the tank \_\_\_\_\_ and \_\_\_\_\_ have been properly boresighted.

40. A killing burst is a continuous burst fired through the target area, designed to \_\_\_\_\_ before they hit the ground or find cover.
41. To minimize refraction, when an elevated firing position is not available, the following adjustment should be applied:
- Day - adjust the sight picture up \_\_\_\_\_ target form.
- Night - adjust the sight picture down \_\_\_\_\_ target form.
42. Tank cannons are long and heavy; therefore they \_\_\_\_\_ slightly due to gravitational pull.
43. The apparent illusion of a target displacement is commonly called \_\_\_\_\_.
44. Gunner lay error is caused when the gunner fails to make a correct lay to the target aiming point while either \_\_\_\_\_ or \_\_\_\_\_.
45. To minimize the effects of gunner lay error, each gunner must be trained to make his final correction, ending his lay in \_\_\_\_\_.
46. Ammunition may take \_\_\_\_\_ to reach the same temperature as the stowage compartment.
47. To determine the ammunition temperature at the location of upload a \_\_\_\_\_ is used.
48. When boresighting the gunners auxiliary sight, the \_\_\_\_\_ is aligned to the boresight target aiming point.
49. Rotating the muzzle boresight device inside the main gun may \_\_\_\_\_ the device or leave it improperly \_\_\_\_\_.
50. \_\_\_\_\_ are applied to the gunners auxiliary sight to refine the ballistic data, the same as computer correction factors refine the computer ballistic solution in the gunners primary sight.

51. For the purpose of gunnery qualification, should a crew ever boresight a tank without the engine running ? \_\_\_\_\_.
52. With the engine running, the turret hydraulic pressure gauge should show \_\_\_\_\_ to \_\_\_\_\_ psi.
53. At home station, the proofing team is responsible for \_\_\_\_\_.
54. Success of the screening test depends on the proofing team and crew members eliminating \_\_\_\_\_ and crew errors before firing the first round of the test.
55. The screening test ensures tanks can fire accurately using the \_\_\_\_\_.
56. Maintenance procedures are outlined in \_\_\_\_\_ of TM 9-2350-255-10.
57. Maintenance instructions are organized into two sections: \_\_\_\_\_ and \_\_\_\_\_.
58. If the tank fails either the sabot or heat portion of the screening test, the proofing team \_\_\_\_\_ it.
59. During the screening test the proofing team helps crews \_\_\_\_\_ for and \_\_\_\_\_ the screening test.
60. The most reliable method of correcting boresight loss is to \_\_\_\_\_.
61. When a tank does not pass the screening test, a \_\_\_\_\_ computer correction factor is calculated.
62. What five items may the gunner be influenced by when attempting to lay center mass ?
- a. \_\_\_\_\_
  - b. \_\_\_\_\_
  - c. \_\_\_\_\_
  - d. \_\_\_\_\_
  - e. \_\_\_\_\_
63. In a ballistic solution the most important element is \_\_\_\_\_.

64. Muzzle displacement is caused by; \_\_\_\_\_ and \_\_\_\_\_.
65. A \_\_\_\_\_ will compensate for the effects of muzzle displacement, until boresighting can be accomplished.
66. Special gunnery checks are performed if a tank fails the \_\_\_\_\_ or if \_\_\_\_\_ cannot be performed.
67. List the steps for performing immediate action on the M240 (cold gun).
- a. \_\_\_\_\_
  - b. \_\_\_\_\_
  - c. \_\_\_\_\_
  - d. \_\_\_\_\_
68. List the steps for performing immediate action on the M240 (hot gun).
- a. \_\_\_\_\_
  - b. \_\_\_\_\_
  - c. \_\_\_\_\_
  - d. \_\_\_\_\_
69. List the steps for performing immediate action on the M2HB (cold gun).
- a. \_\_\_\_\_
  - b. \_\_\_\_\_
  - c. \_\_\_\_\_
  - d. \_\_\_\_\_
70. List the steps for performing immediate action on the M2HB (hot gun).
- a. \_\_\_\_\_
  - b. \_\_\_\_\_
  - c. \_\_\_\_\_
  - d. \_\_\_\_\_
  - e. \_\_\_\_\_

71. List the six possible elements of a fire command.

- a. \_\_\_\_\_
- b. \_\_\_\_\_
- c. \_\_\_\_\_
- d. \_\_\_\_\_
- e. \_\_\_\_\_
- f. \_\_\_\_\_

72. List the four possible elements of a subsequent fire command.

- a. \_\_\_\_\_
- b. \_\_\_\_\_
- c. \_\_\_\_\_
- d. \_\_\_\_\_

73. Which element of the initial fire command does the command “battlesight” replace?  
\_\_\_\_\_.

74. List the two elements that must always be included in a reduced fire command.

- a. \_\_\_\_\_
- b. \_\_\_\_\_

75. For machine gun point target engagements, a target hit will be scored when \_\_\_\_\_ or more rounds are fired through the target.

76. Target exposure time in offense and defense starts when \_\_\_\_\_.

77. List the four types of time used to evaluate gunnery engagements on tables IV through VIII.

- a. \_\_\_\_\_
- b. \_\_\_\_\_
- c. \_\_\_\_\_
- d. \_\_\_\_\_

78. What is the maximum defilade time allowed in a defensive engagement ? \_\_\_\_\_.

79. A main gun target is considered engaged when \_\_\_\_\_.

80. List the three policies that, when violated, will cause a crew to receive 0 points for an engagement they are firing.

- a. \_\_\_\_\_.
- b. \_\_\_\_\_.
- c. \_\_\_\_\_.