

# Land Navigation Written Exam



## Version C – Tenino

Edition – 7- DMATC

Series – V791

Sheet – 1477 IV

1. What is the road distance in meters from the intersection at EG01258405 to the road intersection located at EG03118743?
  - a. 7450
  - b. 4400
  - c. 5000
  - d. 6500
  
2. What is the straight-line distance in meters from Spot Elevation 147 / Grid EG1297 to Spot Elevation 145 / Grid EG1693?
  - a. 5950
  - b. 3400
  - c. 5400
  - d. 2900
  
3. What is the road distance in meters from the intersection / EG05158650 to the intersection / EG07069375?
  - a. 8200
  - b. 7850
  - c. 4800
  - d. 8600
  
4. What is the magnetic azimuth from Spot Elevation 173 / EG1697 to Spot Elevation 167 / EG1795?
  - a. 306
  - b. 126
  - c. 348
  - d. 168
  
5. What is the grid azimuth from Spot Elevation 134 / EG1098 to Spot Elevation 147 / EG1297?
  - a. 287
  - b. 106
  - c. 127
  - d. 85

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6. What is the magnetic azimuth from the grid / EG08239820 to Spot Elevation 134 / EG1098?
- 97 degrees
  - 76 degrees
  - 55 degrees
  - 257 degrees
7. Two observation posts have reported seeing enemy vehicles. OP#1 located on Spot Elevation 189 / EG0280 sees them at 117 degrees grid azimuth. OP#2 located at Spot Elevation 192 / EG0279 sees them at 62 degrees magnetic azimuth. Where is the enemy located?
- EG03957925
  - EG03357955
  - EG06007960
  - EH03957925
8. Friendly forces located at Church of God / EG0385 spot enemy fire at 90 degrees magnetic. Your platoon located on Spot Elevation 197 / EG0483 can see the fire at 352 degrees magnetic. Where is the enemy fire coming from?
- EG04898524
  - EG04748460
  - EG84600474
  - EG04208520
9. You are a member of a recon patrol and were sent up to Spot Elevation 145 / EG1693 to report the closest train sighting and activity north of your position. As soon as you get to the location you hear and see a train at 0 degrees magnetic on the track closest to you. What is the 8-digit grid of the train?
- EG15909485
  - EG16579466
  - EG16289475
  - EH16289475
10. You are driving South on I-5 and run out of gas. You stop on the right side of the Freeway to check you location. From your position you can see a school located at / Grid EH0603 at a 117 degree magnetic azimuth. What is your 8-digit grid coordinate?
- EH06230383
  - EH06050355
  - EH06550444
  - EH05970340

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**11.** Your squad is conducting waterborne operations on Beaver Creek to infiltrate enemy lines and blow up the rail road bridge. During the movement you want to confirm your location. You can see the water tower located at EG10288885 at 157 degrees magnetic. What is your 8-digit grid location?

- a. EG06009320
- b. EG08899205
- c. EG10089275
- d. EG12758300

**12.** Your Company Commander wants to know where you are. You look around and pinpoint a water tower / EG0985 at 156 degrees magnetic. You also spot a church in the town of “Violet Prairie” at 247 degrees magnetic. What is your 8-digit grid coordinate?

- a. EG06858790
- b. EG08158788
- c. EG09218720
- d. EG87880815

**13.** While patrolling near McIntosh Lake you become misoriented. You can see Spot Elevation 222 / EG1690 at 240 degrees magnetic and a lookout tower / EG1887 at 140 degrees magnetic. Where are you stranded?

- a. EG18509060
- b. EG16809098
- c. EG18919175
- d. EG18759130

**14.** If you were working off map sheet 1477 IV (Tenino) and found that you needed the map sheet to the east, which adjoining map sheet would you request?

- a. 1377 I
- b. 1477 I
- c. 1477 II
- d. 1478 II

**15.** What is the supplementary contour interval of your map in meters?

- a. 5
- b. 10
- c. 15
- d. 20

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**16.** What is the scale of this (Tenino) map sheet?

- a. 1:30,000
- b. 1:40,000
- c. 1:50,000
- d. 1:60,000

**17.** What is the elevation of the point located at grid EH09350215?

- a. 40 meters
- b. 50 meters
- c. 30 meters
- d. 25 meters

**18.** In grid square EG 0690 what terrain feature surrounds a small swamp?

- a. Cut
- b. Fill
- c. Hole
- d. Depression

**19.** What is the terrain feature located at EG16658420?

- a. Saddle
- b. Draw
- c. Valley
- d. Spur

**20.** What is the terrain feature located at EG12958690?

- a. Draw
- b. Hilltop
- c. Saddle
- d. Valley