GPS Questions for FFA Contest

White Track

- 1) WAAS is the acronym for _____?
 - a) Wide Area American Satellites
 - b) Wide Area Augmentation System
 - c) Western Area Augmentation System
 - d) Western Accurate Augmentation System
- 2) Which of the following navigational systems is maintained by Russia?
 - a) GLONASS
 - b) WAAS
 - c) BDS
 - d) USSR
- 3) Which of the following needs spurred on development of the current Global Positioning System?
 - a) Faster and more accurate logistical analysis and planning systems for maritime shipping companies
 - b) Precision farming
 - c) Accurate defense systems for targeting cold-war ICBM silos
 - d) Hyper-accurate guidance systems for orbiting NASA space vehicles
- 4) Which of the following coordinates are in the UTM coordinate system?
 - a) 32° 00' 00.0" 098° 00' 00.0"
 - b) 32'00"00.00° 098'00"00.0°
 - c) 0571825 3558325
 - d) 057:18.25 35:58.325
- - <mark>a) 5</mark>
 - b) 6
 - c) 12
 - d) 24

- 6) True or False: GPS accuracy is enhanced by low orbiting satellites.
 - a) True
 - <mark>b) False</mark>
- 7) Which of the following makes up the Earth's lower atmosphere and creates relatively minor signal error?
 - a) lonosphere
 - b) Troposphere
 - c) Biosphere
 - d) Endosphere
- 8) Small variations in each satellite's orbit are monitored using very precise ______ to calculate orbital errors?
 - <mark>a) Radar</mark>
 - b) Sonar
 - c) Atomic spectrometry
 - d) Electron microscopes located at the NORAD military facility in Colorado
- 9) Which of the following applications to a large degree rely on GPS technology?
 - a) Sub terrain mining
 - b) Navy Seal deep water ROV rescue unit
 - c) Investment banking network transactions
 - d) Spelunking mapping efforts
- 10) Global positioning systems employ a fundamental formula for computing satellite triangulation and is described below as _____?
 - a) R2+D2=C3PO
 - <mark>b) d=rt</mark>
 - c) A=P(1+rt)
 - d) $E=MC^2$