

Sample Questions - selected from previous high school district-level tournaments

5-Point Questions:

- ENG** 1. Which one of the following four rulers was known by the Greek name Ozymandias in Shelly's poem?
1. Turnus 2. Cheops 3. Priam * 4. Ramses II
- ART** 2. Name the major technique used to form glittering images as decoration in early Christian churches such as San Vitale.
Answer: mosaic
- MATH** 3. In terms of trigonometric functions, what are the coordinates of any point on a unit circle?
Answer: (cos x, sin x)

10-Point Questions:

- MUS** 4. Supply respectively the theoretical name for each of the following four degrees of the musical scale.
1. first 2. fourth 3. fifth 4. seventh
Answer: 1. tonic; 2. subdominant; 3. dominant; 4. leading tone
- SS** 5. Give the geographic term for the frequently windless area near the Equator.
Answer: doldrums
- HUM** 6. This is a two-part question.
Part 1: Which one of the following four kings was Molière's patron?
1. Louis XIII * 2. Louis XIV 3. Louis XV 4. Louis XVI
Part 2: Which one or ones of the following four works were written by Molière?
1. *Sarabande* * 2. *Tartuffe* 3. *The Comic Ballet of the Queen*
4. *The Royal Ballet of Night*

15-Point Questions:

- SCI** 7. Two equal charges repel each other with a force of 8 newtons. Calculate the new force in newtons if the magnitude of each charge is reduced by one-half and the distance between the charges is decreased to one-fifth the original separation distance.
Answer: 50
- SS** 8. Identify the individual who was the first US president to apply the 25th Amendment during his administration.
Answer: (Richard M.) Nixon
- MS** 9. Which one or ones of the following four individuals described in the following could have been passengers on the *Hindenburg*?
* 1. author of *Of Mice and Men*
* 2. artist of *Guernica*
3. discoverer of x-rays
4. composer of *Tristan and Isolde*
(Note: *Hindenburg* burned in 1937. 1. John Steinbeck, 1902-1968; 2. Pablo Picasso, 1881-1973; 3. Wilhelm Roentgen, 1845-1923; 4. Richard Wagner, 1813-1883)