

Name _____

MULTIPLE CHOICE. Choose the one alternative that best completes the statement or answers the question.

- 1) After removing the center nut, use a _____ to remove the steering wheel from the steering shaft. 1) _____
 - A) puller
 - B) hammer
 - C) shaft depressor
 - D) snap ring plier

- 2) The pitman shaft is also called the _____ shaft. 2) _____
 - A) sector
 - B) input
 - C) worm
 - D) spline

- 3) On a variable ratio sector shaft, the center gear tooth is _____ than the side gear teeth. 3) _____
 - A) larger
 - B) smaller
 - C) thinner
 - D) softer

- 4) What causes a variable ratio steering gear to be able to change the ratio as the steering wheel is turned? 4) _____
 - A) Using two or three different sector gears depending on design
 - B) Using a variable length pitman arm
 - C) Changing the number of teeth on the worm gear
 - D) Changing the length of the teeth on the sector gear

- 5) Which part in the steering column allows for changes in the angle between the upper and lower shafts? 5) _____
 - A) Flexible coupling
 - B) Column cover
 - C) Universal joint
 - D) Collapsible section

- 6) Technician A says that variable ratio steering is the same thing as variable assist steering. Technician B says that constant ratio shaft and sector gears are the same size, unlike systems with variable ratio steering. Which technician is correct? 6) _____
 - A) Technician A only
 - B) Technician B only
 - C) Both technicians
 - D) Neither technician

7) Technician A says that the front wheels are able to rotate through 60-80 degrees of rotation. Technician B says that turning the steering wheel all the way left then all the way right is turning the wheel "lock to lock." Which technician is correct?
 A) Technician A only
 B) Technician B only
 C) Both technicians
 D) Neither technician

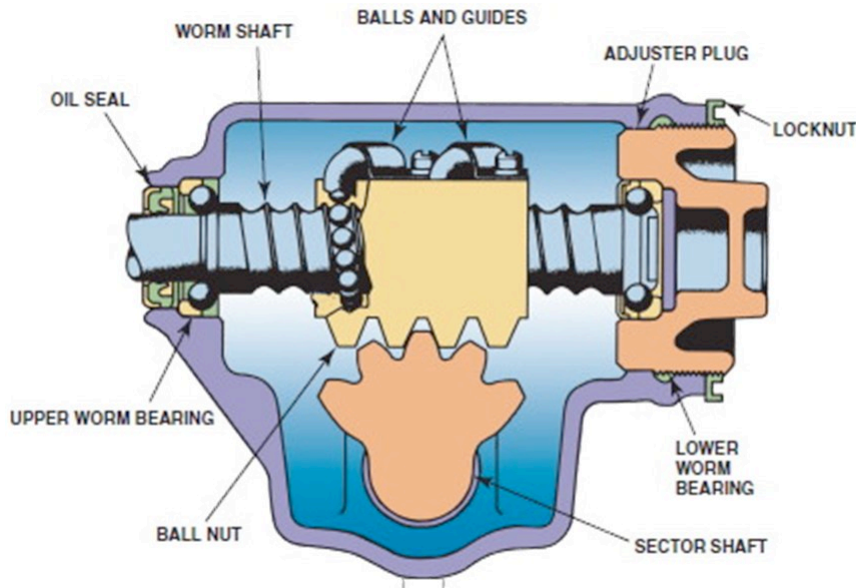
7) _____

8) The rotation of the steering wheel causes which part to move the actual steering linkage in a conventional steering gear?
 A) Sector shaft
 B) Pitman arm
 C) Worm gear
 D) Gear nut

8) _____

9) In this drawing, what components move when the worm shaft is rotated?
 A) Ball nut
 B) Sector shaft
 C) Both A and B
 D) Neither A nor B

9) _____



- A) Ball nut
- B) Sector shaft
- C) Both A and B
- D) Neither A nor B

10) What component helps isolate road forces and vibration from the steering shaft?
 A) Flexible coupling
 B) U-joint
 C) Both A and B
 D) Neither A nor B

10) _____