

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

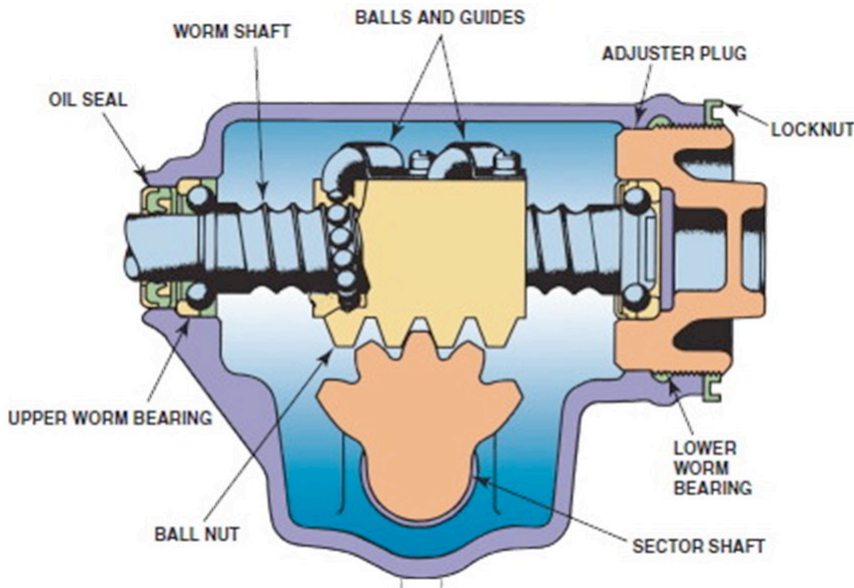
7) _____

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) _____

Answer Key

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1) A

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2) A

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3) A

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4) D

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5) C

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6) B

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7) C

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8) B

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9) C

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10) A

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