

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

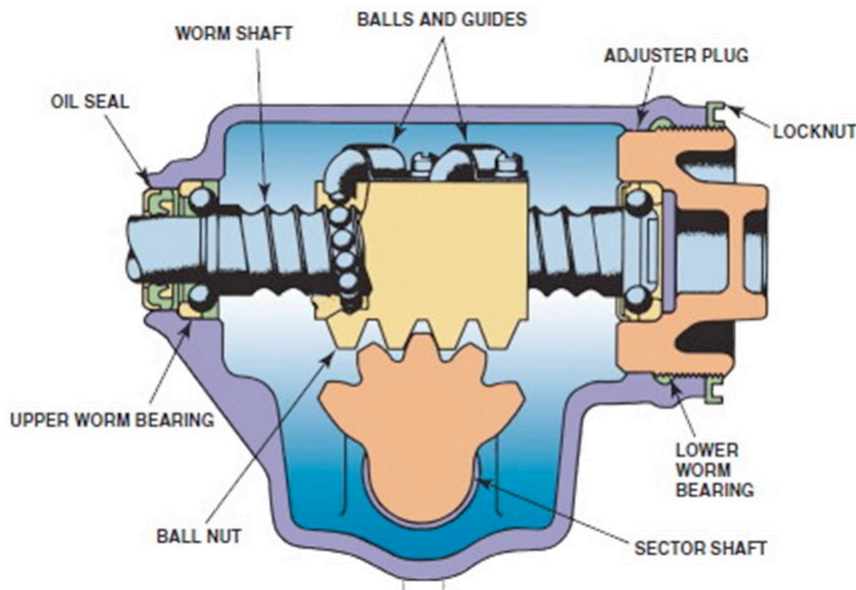
7) \_\_\_\_\_

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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