

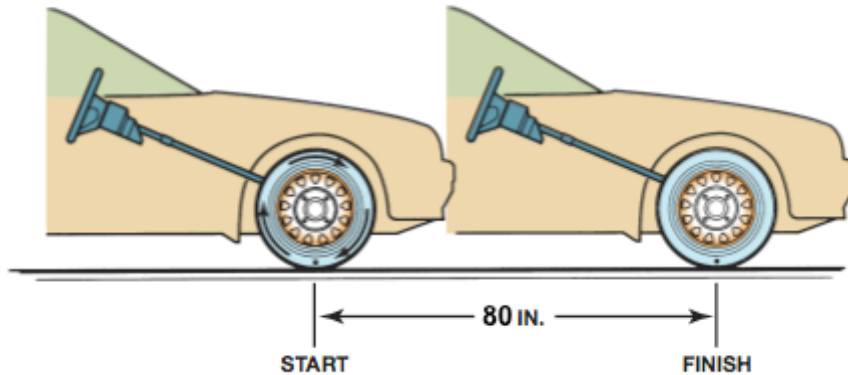
Name \_\_\_\_\_

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

- 1) Technician A uses a dial indicator to check a hub flange for runout. Technician B says that excessive runout on a wheel hub flange would cause low frequency vibrations. Which technician is correct? 1) \_\_\_\_\_  
A) Technician A only  
B) Technician B only  
C) Both technicians  
D) Neither technician
- 2) A vibration is felt in the steering wheel during braking only. A common cause of the vibration is \_\_\_\_\_. 2) \_\_\_\_\_  
A) Worn idler arm  
B) Out of balance front tires  
C) Loose or defective wheel bearings  
D) Warped or nonparallel front disc brake rotors
- 3) Technician A says that tires and wheels are the most common source of low frequency vibrations. Technician B says that engine or transmission mounts are most common source of low frequency vibrations. Which technician is correct? 3) \_\_\_\_\_  
A) Technician A only  
B) Technician B only  
C) Both technicians  
D) Neither technician
- 4) What does NVH stand for? 4) \_\_\_\_\_  
A) Noise, vibration, and harshness  
B) Normal vibration harmonics  
C) Net value of harshness  
D) None of these
- 5) A vibration that is felt in the steering wheel at highway speeds is usually due to \_\_\_\_\_. 5) \_\_\_\_\_  
A) Defective or out-of-balance rear tires  
B) Defective or out-of-balance front tires  
C) Out-of-balance or bent drive shaft on a RWD vehicle  
D) Out-of-balance drive axle shaft or defective outer CV joints on a FWD vehicle

6) Calculate the rolling frequency of this tire at 50 mph.

6) \_\_\_\_\_



- A) 11 Hz
- B) 13.8 Hz
- C) 653 Hz
- D) 7.4 Hz

7) A defective clutch release (throw out) bearing is usually heard when the clutch is \_\_\_\_\_.

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

- A) Engaged in neutral
- B) Disengaged in gear
- C) Depressed to take up any free play
- D) Engaged in first gear or reverse

8) Driveshaft vibrations may be corrected by using \_\_\_\_\_ to balance the shaft.

8) \_\_\_\_\_

- A) Clip-on wheel balancing weights
- B) Hose clamps
- C) Balancing fluid
- D) Stick-on wheel balancing weights

9) The maximum allowable drive shaft runout is \_\_\_\_\_.

9) \_\_\_\_\_

- A) 0.030 in. (0.8 mm)
- B) 0.10 in. (2.5 mm)
- C) 0.50 in. (13 mm)
- D) 0.015 in. (0.4 mm)

10) What is the first step in diagnosing a noise or vibration complaint?

10) \_\_\_\_\_

- A) Test drive to verify the concern
- B) Visual inspection of likely worn parts
- C) Jounce test
- D) None of these

## Answer Key

Testname: MDA8\_17A

- 1) C  
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- 2) D  
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- 3) A  
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- 4) A  
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- 5) B  
Page Ref: 322
- 6) A  
Page Ref: 325
- 7) C  
Page Ref: 331
- 8) B  
Page Ref: 330
- 9) A  
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- 10) A  
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