

Name _____

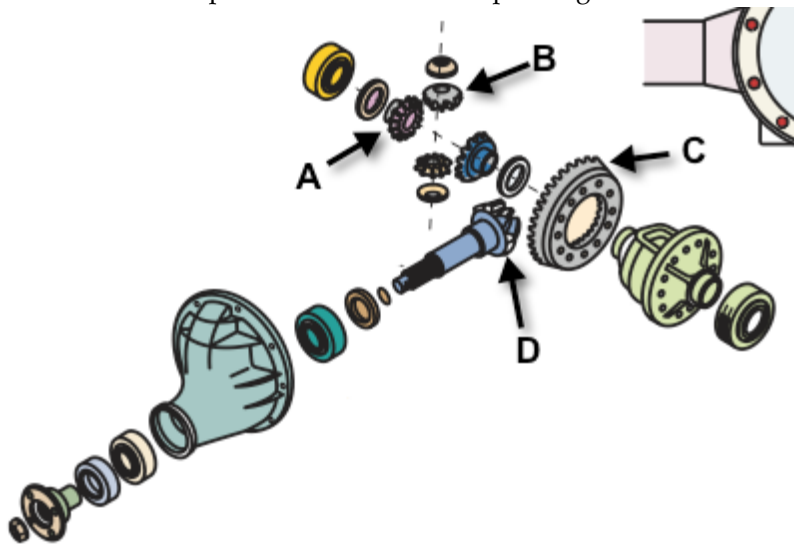
MULTIPLE CHOICE. Choose the one alternative that best completes the statement or answers the question.

1) In a rear axle, the drive pinion gear works with _____. 1) _____
A) A ring gear to change the direction of power flow
B) Side gears to provide differential action
C) A ring gear to provide gear reduction
D) All of these are correct

2) Which of the following is NOT true about a hypoid gear set? 2) _____
A) The pinion gear is mounted below the ring gear center line
B) A special type of gear oil is required
C) This is an efficient gear set with very little friction
D) Special procedures are required to adjust it

3) Technician A says that the rear axles on FWD vehicles are often called "live axles." Technician B says that rear axles on a RWD vehicle are often called "live axles." Which technician is correct? 3) _____
A) Technician A only
B) Technician B only
C) Both technicians
D) Neither technician

4) Which of these components is a differential pinion gear? 4) _____



- A) A
- B) B
- C) C
- D) D

- 5) Electric locking differentials may use a _____ to lock the differential to the case. 5) _____
A) Magnetic clutch
B) Viscous clutch
C) Vacuum actuator
D) Screw cam
- 6) What supports the pinion gear in the differential housing? 6) _____
A) Tapered roller bearings
B) Bronze bushings
C) Ball bearings
D) Rubber bushings
- 7) A ring and pinion with a 3.76:1 ratio is classified as _____. 7) _____
A) Hunting
B) Non hunting
C) Partial non hunting
D) None of these is correct
- 8) A ring and pinion gear set has 11 teeth on the pinion gear and 42 teeth on the ring gear. What is the ratio? 8) _____
A) 3.81 to 1
B) 3.72 to 1
C) Non-hunting
D) Partial-hunting
- 9) Which of these gears produce the final drive ratio? 9) _____
A) Ring and pinion gear set
B) Spider gears
C) Countershaft gears
D) None of the above is correct
- 10) Which of these is NOT a feature of a limited slip differential? 10) _____
A) It features a 1:1 torque bias ratio.
B) It prevents single wheel spin.
C) It may require a special friction modifying additive with the gear oil.
D) It may utilize electronic traction control to prevent wheel spin.

Answer Key

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1) D

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2) C

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3) B

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4) B

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5) A

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6) A

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7) A

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8) A

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9) A

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10) A

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