

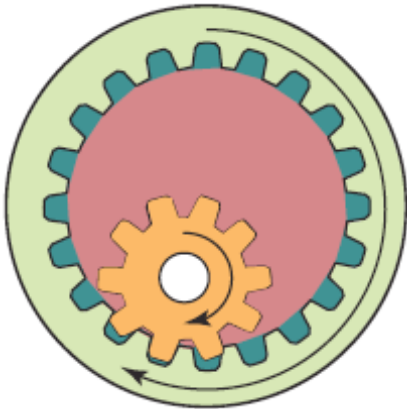
Name _____

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

- 1) A differential is normally composed of _____ gears. 1) _____
- A) Four or more
 - B) Two
 - C) Two equal sized
 - D) Shaft

- 2) If a gear with 20 teeth is driving a gear with 60 teeth, the gear ratio is _____. 2) _____
- A) 2:6
 - B) 3:1
 - C) 1:3
 - D) 0.33:1

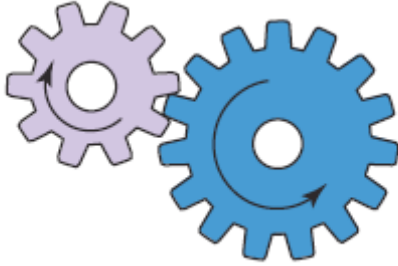
- 3) What is the gear ratio of this gear set (small gear driving)? 3) _____



- A) 3:1
 - B) 2:1
 - C) 1.5:1
 - D) Cannot calculate
- 4) Gear ratios can be used to _____. 4) _____
- A) Increase speed
 - B) Increase torque
 - C) Reverse direction
 - D) All of the above

5) What is the gear ratio of this gear set (small gear driving)?

5) _____



- A) .66 to 1
- B) .66:1
- C) 1.5:1
- D) 10:1

6) The type of gear set used in most automatic transmissions is _____.

6) _____

- A) Spur gears
- B) Planetary gears
- C) Helical gears
- D) Any of the above

7) The transmission is in first gear, which has a 2.5:1 ratio, and the rear axle has a ratio of 2:1. The overall gear ratio is _____.

7) _____

- A) 4.5:1
- B) 5:1
- C) 2:1
- D) 2.5:1

8) What is used to transfer torque to all four wheels?

8) _____

- A) Four driveshafts
- B) A transfer case or power transfer unit
- C) Four differentials
- D) All of the above

9) A differential _____.

9) _____

- A) Provides the gear reduction needed in the drive axle
- B) Drives two wheels at different speeds
- C) Both A and B
- D) Neither A nor B

10) Technician A says that a differential provides the gear reduction needed in the drive axle.

10) _____

Technician B says that the differential can drive two wheels at different speeds. Which technician is correct?

- A) Technician A only
- B) Technician B only
- C) Both technicians
- D) Neither technician

Answer Key

Testname: MDA8_3A

1) A

Page Ref: 65

2) B

Page Ref: 58

3) B

Page Ref: 59

4) D

Page Ref: 56

5) C

Page Ref: 58

6) B

Page Ref: 62

7) B

Page Ref: 59

8) B

Page Ref: 67

9) B

Page Ref: 65

10) B

Page Ref: 65