

Name _____

SHORT ANSWER. Write the word or phrase that best completes each statement or answers the question.

1) What is the difference between four-wheel drive and all-wheel drive?

2) Calculate the gear ratio if the driven gear has 36 teeth and the driving gear has 12 teeth.

3) What are the parts of a typical clutch assembly?

4) Explain how to determine the axle ratio without removing the housing cover.

5) What happens when the driver depresses the clutch pedal?

Answer Key

Testname: INTRO_SHORT38

1) All-wheel drive means that there is no gear reduction in the transfer case and that engine torque is applied to all four wheels all of the time and often use a viscous coupling to allow for differences in wheel speed while cornering.

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2) 3:1

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3) A clutch assembly consists of the pressure plate, friction disc, and release bearing.

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4) After hoisting the vehicle, mark the rear tires and the drive shaft. Have an assistant hold one drive wheel and slowly rotate the other wheel exactly 10 revolutions. Multiply the drive shaft revolution by 2 and then, move the decimal point one place to the left to get the final ratio

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5) The clutch is released when the driver depresses the clutch pedal. The clutch pedal, through linkage or hydraulics, moves the throwout bearing to depress the pressure plate which then releases the clamping force of the clutch disc from between the pressure plate and the flywheel.

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