

Name_____

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

1) What type of gears are used in most automatic transmissions?

2) What is an inter-axle differential?

3) What are the common shift modes used in an automatic transmission?

4) How is a gear ratio calculated?

5) What is the difference between torque and horsepower?

Answer Key

Testname: ATT7_SHORT1

- 1) Most automatic transmissions use planetary gear sets, which are a combination of gears. When the gear set is assembled, the sun gear is in the center and meshed with the planet gears, which are located around it, somewhat like the planets in our solar system. The ring gear is meshed around the outside of the planet gears.
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- 2) The inter-axle differential is located between the two drive axles. The inter-axle differential allows the front-to-rear wheel speed differential.
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- 3) The shift modes for most automatic transmissions include park, reverse, neutral, overdrive, drive, third, second and first (low).
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- 4) Gear ratios are determined by dividing the number of teeth on the driven gear (output) by the number of teeth on the driving gear (input).
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- 5) Torque is a rotating or twisting force that may or may not result in motion whereas horsepower is the measure of the rate of doing work.
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