

Name _____

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

1) What is meant by an overdrive ratio?

2) What are the parts of a manual transmission?

3) How is a synchronizer assembly able to allow a clash-free shift?

4) What are the possible lubricants that a manual transmission/transaxle may require?

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

Answer Key

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- 1) An overdrive ratio means that the output (driven gear) rotates faster than the input (driving gear).
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- 2) A manual transmission consists of the following major components: transmission case, extension housing, input shaft, front bearing retainers, output shaft, countershaft, and shifting mechanism.
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- 3) A synchronizer allows clash-free shifting by using the synchronizer ring (blocking ring) against the speed gear to match the speeds of the gear before the shift is completed.
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- 4) A manual transmission/transaxle may require any one of the following lubricants: gear lube, engine oil, ATF, or Synchronesh transmission fluid (STF).
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