

Name _____

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

1) How are threaded inserts installed?

2) How is the size of a metric bolt expressed?

3) How do prevailing torque nuts work?

4) What is the difference between a bolt and a stud?

5) What is meant by the grade of a threaded fastener?

Answer Key

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- 1) Threaded inserts are installed by first drilling out the old threads and then threading the new hole, allowing the insert to be installed. The insert threads are the same size as the original.
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- 2) The size of a metric bolt is expressed with the letter M followed by the diameter in millimeters (mm). For example, a bolt that is 8 mm in diameter is labeled M8.
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- 3) A prevailing torque nut works by deforming the threads or having a plastic insert, which helps the nut retain its position so that the clamping force of the fastener is not lost due to vibration.
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- 4) A stud has threads on both ends whereas a bolt has a head at one end used by a wrench or socket to rotate it and threads on the other end.
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- 5) The grade of a threaded fastener is a measure of the tensile strength. The higher the grade is, the greater the tensile strength.
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