

Name _____

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

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

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

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

4) How do prevailing torque nuts work?

5) How are threaded inserts installed?

Answer Key

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- 1) 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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- 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) 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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- 4) 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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- 5) 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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