

**Challenge Time
for
Materials Engineers
(2)**

An opportunity to test your knowledge

Kamran Khodaparasti

In the tensile test, to determine the cross-sectional area of a test specimen:

- A.** Measure the dimensions of the cross section at the center.
- B.** Measure the minimum cross-sectional area.
- C.** Measure the maximum cross-sectional area.
- D.** Calculate the average of 3 dimensions.

Please think first and then go to the next page for the answer.

The correct answer is **A** based on 7.2.1 of ASTM E8 and 9.5 of ASTM A370

The correct answer is **B** based on QW-152 of ASME BPVC Sec. IX



Designation: E8/E8M – 21

Standard Test Methods for
Tension Testing of Metallic Materials¹



Designation: A370 – 21

Standard Test Methods and Definitions for
Mechanical Testing of Steel Products¹

