1 / 12 · Technical Mathematics

## How many scored questions does Technical Mathematics carry?

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## About what share of CQI questions need a calculation?

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## Convert a fraction to a decimal.

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## When should you round in a multi-step calculation?

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## The upper limit is 0.500 in. and the reading is 0.5004 in. Round it to 0.500 and pass it?

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## Percent change formula

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About 20%, according to the Body of Knowledge.

ASQ CQI Body of Knowledge 2025

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19 of the 100 scored questions. Its skills also run through metrology, sampling and SPC.

ASQ CQI Body of Knowledge 2025: section question counts

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Once, at the end, to the places the question asks for. Carry at least one extra place until then.

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Divide the top by the bottom: 5/16 = 0.3125.

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(new - old) / old x 100. The base is always the starting value.

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No. Compare the reading as measured with the limit. 0.5004 is over 0.500.

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## Percentage points versus percent change

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## Celsius to Fahrenheit

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## Habit for any formula question

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## Inches to millimeters

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## One microinch in inches

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## Micrometers (um) to microinches

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F = C x 9/5 + 32. So 20 degrees Celsius is 68 degrees Fahrenheit.

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A fall from 40% to 34% is 6 percentage points, but a 15% relative decrease (6 / 40).

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Multiply by 25.4 (exact). Millimeters to inches: divide by 25.4.

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Rearrange for the unknown first, then put the numbers in, then check by reversing.

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Multiply by about 39.37. So 1.6 um is about 63 microinches.

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0.000001 in. (one millionth of an inch).

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