

Numbers and Operations: Machine Operator

Coretronics, Inc.

Job Description: Grind print heads using surface grinders. Must know Imperial (U.S.) system to Metric system conversion.

Problem:

Upon measuring the part you are machining, your inspection tool says that an additional 0.45 mm needs to be removed. The machine you are using only has controls calibrated in inches.

(25.4 mm = 1 inch)

How many inches do you need to remove from the part? Do not use a calculator. Answer is to be given with 4 decimal places.

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Solution:

$0.45 \text{ mm} \times (1 \text{ inch} \div 25.4 \text{ mm}) = 0.45 \text{ inches} / \text{mm} \div 25.4 \text{ mm} = 0.0177 \text{ inches}$

This is an actual interview question used. About 40% of applicants get it right.