

TOPIC

Engineering Probability and Statistics – Section II – Question 6

QUESTION

The table below summarizes the analysis of samples of galvanized steel for coating weight and surface roughness:

	Coating Weight (CW)	
Surface Roughness (SR)	High	Low
High	12	16
Low	88	34

The probability that a sample has high surface roughness, given it has high coating weight most nearly is

- (A) 0.12
- (B) 0.15
- (C) 0.16
- (D) 0.28

HINT

Let A and B be two events. Then the conditional probability

$$P(A | B) = \frac{P(A \cap B)}{P(B)}.$$

CONTRIBUTOR

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