

ADAPT Practice Problems provided by SALT Solutions

Difficulty level*is 5.8077747

Week 16

38% of students taking exam P will pass the exam. 5% of students are taking exam P having used ADAPT. 79% of the students using ADAPT pass the exam. What is the probability of passing the exam if a student does not use ADAPT?

- A) 0.24
- B) 0.27
- C) 0.30
- D) 0.33
- E) 0.36

*ADAPT questions have a difficulty definition on a scale from 1 to 10 with 1 representing easy and 10 representing very difficult.



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Event A = using ADAPT

Event B = passing the exam

Find $P(B|A')$

$$P(A) = 0.05 \quad P(B) = 0.38 \quad P(B|A) = 0.79 \quad P(A \cap B) = P(A)P(B|A) = 0.0395$$

$$P(A' \cap B) + P(A \cap B) = P(B) \quad P(A' \cap B) + 0.0395 = 0.38$$

$$P(A' \cap B) = 0.3405 \quad P(B|A') = \frac{P(A' \cap B)}{P(A')} = \frac{0.3405}{.95} = 0.358$$

