

### Section 3.2

- 3-1. Continuous
- 3-2. Discrete
- 3-3. Continuous
- 3-4. Discrete
- 3-5. Discrete
- 3-6. Continuous
- 3-7. Discrete
- 3-8. Continuous
- 3-9. Continuous

### Section 3.3

- 3-10. a) Engineers with at least 36 months of full-time employment.  
 b) Samples of cement blocks with compressive strength of at least 7000 kg per square centimeter.  
 c) Measurements of the diameter of forged pistons that conform to engineering specifications.  
 d) Cholesterol levels at most 180 or at least 220.
- 3-11. The intersection of A and B is empty, therefore  $P(X \in A \cap B) = 0$ .  
 a) Yes, since  $P(X \in A \cap B) = 0$ .  
 b)  $P(X \in A^c) = 1 - P(X \in A) = 1 - 0.4 = 0.6$   
 c)  $P(X \in B^c) = 1 - P(X \in B) = 1 - 0.6 = 0.4$   
 d)  $P(X \in A \cup B) = P(X \in A) + P(X \in B) - P(X \in A \cap B) = 0.4 + 0.6 - 0 = 1$
- 3-12. a)  $P(X \in A^c) = 1 - P(X \in A) = 1 - 0.3 = 0.7$   
 b)  $P(X \in B^c) = 1 - P(X \in B) = 1 - 0.25 = 0.75$   
 c)  $P(X \in C^c) = 1 - P(X \in C) = 1 - 0.6 = 0.4$   
 d) A and B are mutually exclusive if  $P(X \in A \cap B) = 0$ . To determine if A and B are mutually exclusive, solve the following for  $P(X \in A \cap B)$ :  
 $P(X \in A \cup B) = P(X \in A) + P(X \in B) - P(X \in A \cap B)$   
 $0.55 = 0.3 + 0.25 - P(X \in A \cap B)$   
 $0.55 = 0.55 - P(X \in A \cap B)$  and  $P(X \in A \cap B) = 0$ .  
 Therefore, A and B are mutually exclusive.  
 e) B and C are mutually exclusive if  $P(X \in B \cap C) = 0$ . To determine if B and C are mutually exclusive, solve the following for  $P(X \in B \cap C)$ :  
 $P(X \in B \cup C) = P(X \in B) + P(X \in C) - P(X \in B \cap C)$   
 $0.70 = 0.25 + 0.60 - P(X \in B \cap C)$   
 $0.70 = 0.85 - P(X \in B \cap C)$  and  $P(X \in B \cap C) = 0.15$ .  
 Therefore, B and C are not mutually exclusive.
- 3-13. a)  $P(X > 15) = 1 - P(X \leq 15) = 1 - 0.3 = 0.7$   
 b)  $P(X \leq 24) = P(X \leq 15) + P(15 < X \leq 24) = 0.3 + 0.6 = 0.9$   
 c)  $P(15 < X \leq 20) = P(X \leq 20) - P(X \leq 15) = 0.5 - 0.3 = 0.2$   
 d)  $P(X \leq 18) = P(15 < X \leq 18) + P(X \leq 15)$   
 where  $P(15 < X \leq 18) = P(15 < X \leq 24) - P(18 < X \leq 24) = 0.6 - 0.4 = 0.2$   
 Therefore,  $P(X \leq 18) = P(15 < X \leq 18) + P(X \leq 15) = 0.2 + 0.3 = 0.5$   
 Alternatively,  $P(X \leq 18) = P(X \leq 24) - P(18 < X \leq 24) = 0.9 - 0.4 = 0.5$ .
- 3-14. A = Overfilled, B = Medium filled, C = Underfilled  
 a)  $P(X \in C^c) = 1 - P(X \in C) = 1 - 0.20 = 0.8$   
 b)  $P(X \in A \cup C) = P(X \in A) + P(X \in C) - P(X \in A \cap C) = 0.45 + 0.20 - 0 = 0.65$  ( $P(X \in A \cap C) = 0$  since A and C are mutually exclusive)
- 3-15. a)  $P(X \leq 8000) = 1 - P(X > 8000) = 1 - 0.45 = 0.55$   
 b)  $P(X > 6000) = 1 - P(X \leq 6000) = 1 - 0.05 = 0.95$   
 c)  $P(6000 < X \leq 8000) = P(X \leq 8000) - P(X \leq 6000) = 0.55 - 0.05 = 0.50$
- 3-16. a) Probability that a component does not fail:  $P(E_1^c) = 1 - P(E_1) = 1 - 0.15 = 0.85$   
 b)  $P(E_1 \text{ or } E_2) = P(E_1) + P(E_2) = 0.15 + 0.30 = 0.45$

# Engineering Statistics 5th Edition Montgomery Solutions Manual

**Patrick Vollmar**



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