## PSC-4011 Ampere-Hour Problems

1. The total charge of a car battery is 90 A.h. If the driver forgot to turn off his headlights (they were on for 5.5 hours, on a 15-ampere current), then will he be able to start his car again? Start-up requires a current of 400 amperes for 3 seconds.

2. The total charge of a car battery is 95A.h. If the driver forgot to turn off his headlights (they were on for 8 hours and 36 minutes, on an 11-ampere current), then will he be able to start his car again? Start-up requires a current of 370 amperes for 4 seconds.

3. The total charge of a car battery is 91 A.h. If the driver forgot to turn off his headlights (they were on for seven hours and 30 minutes, on a 12-ampere current), then will he be able to start his car again? Start-up requires a current of 500 amperes for 3.5 seconds.

4. The total charge of a car battery is 95 A.h. If the driver forgot to turn off his headlights (they were on for seven hours and forty-five minutes, on a 12-ampere current), then will he be able to start his car again? Start-up requires a current of 380 amperes for 3.2 seconds.

5.	The total charge of a car battery is 85 A.h. If the driver forgot to turn off his
	headlights (they were on for six hours and forty minutes, on a 13-ampere
	current), then will he be able to start his car again? Start-up requires a
	current of 400 amperes for 3 seconds.

6. The total charge of a car battery is 90 A.h. If the driver forgot to turn off his headlights (they were on for 5.5 hours, on a 16-ampere current), then will he be able to start his car again? Start-up requires a current of 400 amperes for 3 seconds.

7. The total charge of a car battery is 99 A.h. If the driver forgot to turn off his headlights (they were on for 5½ hours, on an 18.5-ampere current), then will he be able to start his car again? Start-up requires a current of 600 amperes for 2.5 seconds.

8. The total charge of a car battery is 100 A.h. If the driver forgot to turn off his headlights (they were on for six hours and ten minutes, on a 16-ampere current), then will he be able to start his car again? Start-up requires a current of 710 amperes for 2.9 seconds.

9.	The total charge of a car battery is 90 A.h. If the driver forgot to turn off his
	headlights (they were on for eight hours, on a 14-ampere current), then will
	he be able to start his car again? Start-up requires a current of 400 amperes
	for 3 seconds.

10. The total charge of a car battery is 90 A.h. If the driver forgot to turn off his headlights (they were on for 4 and a half hours, on a 20-ampere current), then will he be able to start his car again? Start-up requires a current of 450 amperes for 3 seconds.

11. The total charge of a car battery is 98 A.h. If the driver forgot to turn off his headlights (they were on for six and a half hours, on a 15-ampere current), then will he be able to start his car again? Start-up requires a current of 420 amperes for 3.8 seconds.

12. The total charge of a car battery is 86 A.h. If the driver forgot to turn off his headlights (they were on for four hours and forty-five minutes, on an 18-ampere current), then will he be able to start his car again? Start-up requires a current of 550 amperes for 2.7 seconds.