

1. C 2. C 3. A 4. B 5. B 6. A 7. C 8. D 9. A 10. D 11. B 12. A 13. B 14. C
15. B 16. D 17. B 18. C 19. B 20. B 21. C 22. B 23. A 24. C 25. D 26. D 27. D 28. D
29. B 30. C 31. D 32. B 33. C

34. a) 25s
b)

The period is decreased and therefore the centripetal force increases ($F_c \propto \frac{1}{T^2}$). Since the centripetal force is only provided by the normal force, the normal force on the astronaut increases (F_N is perceived as weight.)