

Answers for Lesson 10-5, pp. 493–495 Exercises

1. A permutation is an arrangement of a set of objects in a particular order.
2. 120
3. 720
4. 6
5. 90
6. 24 ways
7. 6 orders
8. 720 orders
9. 120 orders
10. 120
11. 5,040
12. 362,880
13. 3,628,800
14. 39,916,800
15. 720 ways
16. 5,040 ways
17. 13,800
18. 306
19. 29,760
20. 1,680
21. 159,600
22. 720
23. 30,240
24. 604,800
25. 3,628,800
26. 3,628,800
27. 13,800 arrangements
28. 12 frames
29. 39,070,080 orders; check students' work.
30. You can multiply 12 by each positive integer less than 12, or you can use the factorial key.
31. 504 hours
32. C
33. J
34. A
35. Circle graph; it shows how the total time using computers is broken into parts.
36. Line graph; it shows change over time.