**NYS COMMON CORE MATHEMATICS CURRICULUM 8• 1 Lesson 4 Sprint**

**Sprint 1:** Rewrite each item as an equivalent expression in exponential notation. All letters denote numbers.

|  |  |  |  |
| --- | --- | --- | --- |
| 1. | 22∙23= | 23. | 63∙62= |
| 2. | 22∙24= | 24. | 62∙63= |
| 3. | 22∙25= | 25. | (−8)3∙(−8)7= |
| 4. | 37∙31= | 26. | (−8)7∙(−8)3= |
| 5. | 38∙31= | 27. | (0.2)3∙(0.2)7= |
| 6. | 39∙31= | 28. | (0.2)7∙(0.2)3= |
| 7. | 76∙72= | 29. | (−2)12∙(−2)1= |
| 8. | 76∙73= | 30. | (−2.7)12∙(−2.7)1= |
| 9. | 76∙74= | 31. | 1.16∙1.19= |
| 10. | 1115∙11= | 32. | 576∙579= |
| 11. | 1116∙11= | 33. | 𝑥6∙𝑥9= |
| 12. | 212∙22= | 34. | 28∙4= |
| 13. | 212∙24= | 35. | 28∙42= |
| 14. | 212∙26= | 36. | 28∙16= |
| 15. | 995∙992= | 37. | 16∙43= |
| 16. | 996∙993= | 38. | 32∙9= |
| 17. | 997∙994= | 39. | 32∙27= |
| 18. | 58∙52= | 40. | 32∙81= |
| 19. | 68∙62= | 41. | 54∙25= |
| 20. | 78∙72= | 42. | 54∙125= |
| 21. | 𝑟8∙𝑟2= | 43. | 8∙210= |
| 22. | 𝑠8∙𝑠2= | 44. | 16∙210= |