**NYS COMMON CORE MATHEMATICS CURRICULUM 8• 1 Lesson 4 Sprint 2**

**Sprint 2:** Rewrite each item as an equivalent expression in exponential notation. All letters denote numbers.

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| 1. | 52∙53= | 23. | 73∙72= |
| 2. | 52∙54= | 24. | 72∙73= |
| 3. | 52∙55= | 25. | (−4)3∙(−4)11= |
| 4. | 27∙21= | 26. | (−4)11∙(−4)3= |
| 5. | 28∙21= | 27. | (0.2)3∙(0.2)11= |
| 6. | 29∙21= | 28. | (0.2)11∙(0.2)3= |
| 7. | 46∙42= | 29. | (−2)9∙(−2)5= |
| 8. | 46∙43= | 30. | (−2.7)5∙(−2.7)9= |
| 9. | 46∙44= | 31. | 3.16∙3.16= |
| 10. | 815∙8= | 32. | 576∙576= |
| 11. | 816∙8= | 33. | 𝑧6∙𝑧6= |
| 12. | 912∙92= | 34. | 4∙28= |
| 13. | 912∙94= | 35. | 42∙28= |
| 14. | 912∙96= | 36. | 16∙28= |
| 15. | 235∙232= | 37. | 16∙42= |
| 16. | 236∙233= | 38. | 9∙32= |
| 17. | 237∙234= | 39. | 33∙9= |
| 18. | 147∙143= | 40. | 33∙27= |
| 19. | 157∙153= | 41. | 56∙25= |
| 20. | 167∙163= | 42. | 56∙125= |
| 21. | 𝑥7∙𝑥3= | 43. | 210∙4= |
| 22. | 𝑦7∙𝑦3= | 44. | 210∙16= |