**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.

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| 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=  |