**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.

|  |  |  |  |
| --- | --- | --- | --- |
| 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=  |