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

**Sprint 1:** Simplify each item as much as possible. Answers should have only positive exponents. All letters denote numbers.

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| 1.  | 45∙4−4=  | 15.  | (123)10=  |
| 2.  | 45∙4−3=  | 16.  | (123)11=  |
| 3.  | 45∙4−2=  | 17.  | (7−3)−8=  |
| 4.  | 7−4∙711=  | 18.  | (7−3)−9=  |
| 5.  | 7−4∙710=  | 19.  | (7−3)−10=  |
| 6.  | 7−4∙79=  | 20.  | 􀵬12􀵰9=  |
| 7.  | 9−4∙9−3=  | 21.  | 􀵬12􀵰8=  |
| 8.  | 9−4∙9−2=  | 22.  | 􀵬12􀵰7=  |
| 9.  | 9−4∙9−1=  | 23.  | 􀵬12􀵰6=  |
| 10.  | 9−4∙90=  | 24.  | (3𝑥)5=  |
| 11.  | 50∙51=  | 25.  | (3𝑥)7=  |
| 12.  | 50∙52=  | 26.  | (3𝑥)9=  |
| 13.  | 50∙53=  | 27.  | (8−2)3=  |
| 14.  | (123)9=  | 28.  | (8−3)3=  |
| 29.  | (8−4)3=  | 37.  | 87−1287−34=  |
| 30.  | (220)50=  | 38.  | 23−1523−17=  |
| 31.  | (220)55=  | 39.  | (−2)−12∙(−2)1=  |
| 32.  | (220)60=  | 40.  | 2𝑦𝑦3=  |
| 33.  | 􀵬111􀵰−5=  | 41.  | 5𝑥𝑦715𝑥7𝑦=  |
| 34.  | 􀵬111􀵰−6=  | 42.  | 16𝑥6𝑦98𝑥−5𝑦−11=  |
| 35.  | 􀵬111􀵰−7=  | 43.  | (23∙4)−5=  |
| 36.  | 56−2356−34=  | 44.  | (9−8)(27−2)=  |