**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.

|  |  |  |  |
| --- | --- | --- | --- |
| 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)= |