Skills 1-3 Name:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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|  | Example | Problem |
| 1 | $$5a^{-10}∙4a^{5}$$20a-5$$\frac{20}{a^{5}}$$ | $$3r^{-4}∙2r^{3}$$ |
| 2 | $$m^{5}n^{-2}∙m^{5}n^{2}$$m10 | $$x^{7}y^{-3}∙x^{7}y^{3}$$ |
| 3 | $$\left(4k^{2}l^{-5}\right)^{-2}$$4-2k-4l10$\frac{l^{10}}{4^{2}k^{4}}$  | $$\left(3x^{3}y^{-2}\right)^{-1}$$ |
| 4 | $$\frac{c^{4}}{4c^{-3}}$$$$\frac{c^{7}}{4}$$ | $$\frac{m^{3}}{5m^{-2}}$$ |
| 5 | $$\frac{3x^{-2}y^{5}z^{-8}}{9x^{6}y^{-6}z^{4}}$$$$\frac{y^{11}}{3x^{8}z^{12}}$$ | $$\frac{5d^{-3}e^{4}f^{-10}}{10d^{7}e^{-8}f^{5}}$$ |

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|  | Example | Problem |
| 6 | $$\frac{2d^{6}e^{-5}f^{4}}{3d^{5}e^{4}f^{-2}}$$$$\frac{2df^{6}}{3e^{9}}$$ | $$\frac{3x^{4}y^{-10}z^{2}}{5x^{2}y^{5}z^{-3}}$$ |
| 7 | 3.14 x 108 + 4.2 x 1087.34 x 108 | 1.34 x 102 + 2.5 x 102 |
| 8 | 6.45 x 106 – 2.14 x 1064.31 x 106 | 5.89 x 104 – 1.78 x 104 |
| 9 | (3 x 102)(5 x 107)15 x 1091.5 x 1010 | (4 x 108)(7 x 103) |
| 10 | $$\frac{9×10^{7}}{3×10^{2}}$$3 x 105 | $$\frac{8×10^{6}}{2×10^{3}}$$ |