Skills 3-2 Name:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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|  | Example | Problem |
| 1 | (2xy4)(4x2y7)8x3y11 | (4c3d5)(5cd2) |
| 2 | (a-4a-3)-2(a-7)-2a14 | (x-2x-3)-5 |
| 3 | $$\frac{2x^{3}y^{4}}{3x^{2}y^{8}}$$$$\frac{2x}{3y^{4}}$$ | $$\frac{5d^{2}k^{3}}{8dk^{6}}$$ |
| 4 | $$3x^{-8}∙5x^{3}$$$$15x^{-5}=\frac{15}{x^{5}}$$ | $$4b^{4}∙7b^{-7}$$ |
| 5 | $$c^{4}d^{-3}∙c^{3}d^{3}$$c7 | $$r^{-2}s^{-5}∙r^{2}s^{10}$$ |

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|  | Example | Problem |
| 6 | $$3.58×10^{5}-2.13×10^{5}$$1.45 x 105 | $$4.89×10^{4}-2.43×10^{4}$$ |
| 7 | $$\frac{3.8×10^{5}}{2×10^{2}}$$1.9 x 103 | $$\frac{8.5×10^{9}}{5×10^{4}}$$ |
| 8 | Find the coordinates of triangle ABC after a translation (2, -3).A (-3, -4) 🡪 A’ (-1, -7)B (-5, 0) 🡪 B’ (-3, -3)C (-7 -1) 🡪 C’ (-5, -4) | Find the coordinates of triangle ABC after a translation (-3, 4).A (1, 5) B (3, 1) C (4, 3)  |
| 9 | Find the coordinates of triangle DEF after a reflection over the y-axis.D (1, 8) 🡪 D’ (-1, 8)E (2, 4) 🡪 E’ (-2, 4)F (4, 7) 🡪 F’ (-4, 7) | Find the coordinates of triangle DEF after a reflection over the y-axis.D (-8, -6) E (-5, -3)F (-3, -4) |
| 10 | Find the coordinates of triangle GHI after a dilation k = 2.G (3, -1) 🡪 G’ (6, -2)H (5, 2) 🡪 H’ (10, 4)I (7, -3) 🡪 I’ (14, -6) | Find the coordinates of triangle GHI after a dilation k = 3.G (1, -2) H (-2, 1) I (-3, 0)  |