Name:_____ **Math is Gold** Date:_____

Topic: Exponents **(id:exp_simplify_M.1)**

Title: Simplify

1) $\frac{2a^{-5}}{b^{7}} \cdot \frac{b^{9}}{4a^{3}}$	2) $\frac{7x^{3}}{y^{5}} \cdot \frac{y^{-5}}{14x^{4}}$	3) $\frac{5p^{10}}{7q^{3}} \cdot \frac{14q^{-7}}{5p^{5}}$
4) $\frac{2m^{-5}}{3n^{4}} \cdot \frac{3n^{11}}{4m^{5}}$	5) $\frac{15c^{11}}{d^{5}} \cdot \frac{d^{-3}}{5c^{10}}$	6) $\frac{2d^{-8}}{a^{3}} \cdot \frac{a^{5}}{6d^{-10}}$
7) $\frac{12p^{5}}{m^{12}} \cdot \frac{m^{11}}{15p^{-2}}$	8) $\frac{8u^{3}}{3v^{15}} \cdot \frac{9v^{27}}{16u^{-5}}$	9) $\frac{6f^{12}}{g^{-2}} \cdot \frac{g^{5}}{8f^{10}}$

10) $\frac{2j^{-5}}{k^3} \cdot \frac{k^5}{6j^{-7}}$	11) $\frac{5g}{h^7} \cdot \frac{h^{-3}}{7g^{-1}}$	12) $\frac{8y^{10}}{z^3} \cdot \frac{z^{-3}}{6y^{-1}}$
13) $\frac{10a^{19}}{d^{-5}} \cdot \frac{d^7}{20a^{11}}$	14) $\frac{10r^{-2}}{s^{-3}} \cdot \frac{s^3}{15r^5}$	15) $\frac{6s^{10}}{t^{-5}} \cdot \frac{t^3}{12s^{-1}}$