Name : _____ Score : _____

Teacher : _____ Date : _____

Exponents with Multiplication and Division

Simplify. Your answer should contain only positive exponents.

1) $\frac{8s^{-5}}{4s^{3}y^{-6}}$

2) $\frac{2d^{5}}{3d^{3}k^{4}}$

3) $\frac{2hn^{-5}}{7h^{-3}n^{6}}$

4) $\left(\frac{8}{9}\right)^{5} \cdot \left(\frac{8}{9}\right)^{2} \cdot \left(\frac{8}{9}\right)^{3}$

5) $\frac{2s^{4}}{8s^{5}}$

6) $7c^{4} \cdot 4c^{-4} \cdot 8c^{-2}$

7) $k^{3}y^{5} \cdot 4k^{6}y^{2} \cdot 9ky^{6}$

8) $3c \cdot 6c^{-5}$

9) $4^{2} \cdot 4^{6}$

10) $4wy^{-2} \cdot 5w^{-3}y^{4}$

11) $\frac{9^{6}}{9^{3}}$

12) $\frac{5y^{-2}}{2y}$

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Exponents with Multiplication and Division

Simplify. Your answer should contain only positive exponents.

1) $\frac{8s^{-5}}{4s^{3}y^{-6}}$

$\frac{2y^{6}}{s^{8}}$

2) $\frac{2d^{5}}{3d^{3}k^{4}}$

$\frac{2d^{2}}{3k^{4}}$

3) $\frac{2hn^{-5}}{7h^{-3}n^{6}}$

$\frac{2h^{4}}{7n^{11}}$

4) $\left(\frac{8}{9}\right)^{5} \cdot \left(\frac{8}{9}\right)^{2} \cdot \left(\frac{8}{9}\right)^{3}$

$\left(\frac{8}{9}\right)^{10}$

5) $\frac{2s^{4}}{8s^{5}}$

$\frac{1}{4s}$

6) $7c^{4} \cdot 4c^{-4} \cdot 8c^{-2}$

$\frac{224}{c^{2}}$

7) $k^{3}y^{5} \cdot 4k^{6}y^{2} \cdot 9ky^{6}$

$36k^{10}y^{13}$

8) $3c \cdot 6c^{-5}$

$\frac{18}{c^{4}}$

9) $4^{2} \cdot 4^{6}$

4^{8}

10) $4wy^{-2} \cdot 5w^{-3}y^{4}$

$20\frac{y^{2}}{w^{2}}$

11) $\frac{9^{6}}{9^{3}}$

9^{3}

12) $\frac{5y^{-2}}{2y}$

$\frac{5}{2y^{3}}$