

Name: _____

Math is Gold

Date: _____

Topic: Power of a power

(id:exp_pow_of_pow_A.1)

Title: Simplify

1) $(k^{\frac{1}{5}})^{10}$

2) $(j^{\frac{3}{2}})^4$

3) $(m^{\frac{1}{3}})^9$

4) $(n^{\frac{2}{7}})^7$

5) $(u^{\frac{1}{4}})^8$

6) $(v^{\frac{2}{5}})^{10}$

7) $(w^{\frac{3}{7}})^{14}$

8) $(x^{\frac{1}{5}})^{10}$

9) $(f^{\frac{2}{3}})^6$

$$10) \left(a^{\frac{5}{7}}\right)^{14}$$

$$11) \left(2^5\right)^{\frac{1}{5}}$$

$$12) \left(3^{10}\right)^{\frac{2}{5}}$$

$$13) \left(5^3\right)^{\frac{2}{3}}$$

$$14) \left(7^5\right)^{\frac{1}{10}}$$

$$15) \left(4^7\right)^{\frac{1}{14}}$$

$$16) \left(10^4\right)^{\frac{1}{8}}$$

$$17) \left(3^2\right)^{\frac{3}{2}}$$

$$18) \left(5^2\right)^{\frac{1}{4}}$$

19) $(7^5)^{\frac{2}{5}}$

20) $(6^8)^{\frac{1}{16}}$