Math 10 Radicals and Powers PRACTICE TEST

| | Name: | | | |
|---|-----------|------------|------------|---------------|
| Learning Goal | Beginning | Developing | Proficient | Sophisticated |
| I will be able to express a radicals in multiple forms (entire and mixed) | | | | |
| I will be able to use the laws of exponents to simplify power | | | | |
| expressions | | | | |

Learning Goal #1: I will be able to express radicals in multiple forms (entire and mixed)



Sophisticated Arrange the mixed radicals from least to greatest Write the below entire radical as a mixed radical: $\sqrt{108mn^6s^5}$ $10, 4\sqrt{2},$ a 12,419 ams Explain (in words) the error in the below solution. $=\sqrt[3]{6}, \sqrt[3]{3} \leftarrow 2 \neq \sqrt[3]{6}$: 2 would be $\sqrt[3]{8}$ $=\sqrt[3]{6*3} \leftarrow \text{should be } \sqrt[3]{8\cdot3}$ $2\sqrt[3]{3} \neq 2 * \sqrt[3]{3}$ \leftarrow no error $=\sqrt[3]{18}$

Learning Goal #2: I will be able to use the laws of exponents to simplify power expressions



