Power Laws Of Indices

Name: _____ Date: _____

Simplify:

1. $\left(3^2\right)^5 =$

2. $\left(a^3\right)^4 =$

3. $\left(2a^2\right)^3 =$

4. $\left(2^2 a^5 b^3\right)^2 =$

5. $(-3a^2)^2 =$

6. $\left(s^2 t^4\right)^3 =$

7. $\left(\frac{s}{t}\right)^5 =$

8. $\left(\frac{3^9}{3^5}\right)^2 =$

9. $\left(\frac{st^8}{rt^4}\right)^2 =$

10. $\left(\frac{36a^5b^8}{4a^4b^5}\right)^2 =$