

Lesson 7 Practice Problems

1. Write with a single exponent:

a. $\frac{7^6}{7^2}$

b. $(11^4)^5$

c. $4^2 \cdot 4^6$

d. $6 \cdot 6^8$

e. $(12^2)^7$

f. $\frac{3^{10}}{3}$

g. $(0.173)^9 \cdot (0.173)^2$

h. $\frac{0.87^5}{0.87^3}$

i. $\frac{(\frac{5}{2})^8}{(\frac{5}{2})^6}$

2. Noah says that $2^4 \cdot 3^2 = 6^6$. Tyler says that $2^4 \cdot 4^2 = 16^2$.

a. Do you agree with Noah? Explain or show your reasoning.

b. Do you agree with Tyler? Explain or show your reasoning.