$\qquad$
(1-4) Write an equivalent expression for each of the following.

1. $\left(5^{4}\right)^{2}=$ $\qquad$
2. $\left(y^{6}\right)^{5}=$ $\qquad$
3. $\left(\frac{1}{2}\right)^{5}=$
4. $\left(6^{-2}\right)^{-7}=$ $\qquad$
(5-6) Fill in each box with the missing number which will make each statement true.
5. $\left(g^{\square}\right)^{5}=g^{10}$
6. $\left(w^{-3}\right)^{\square}=w^{-21}$
(7-10) Write an equivalent expression for each of the following. Evaluate number bases completely.
7. $\left(2 x^{6}\right)^{5}=$ $\qquad$
8. $\left(c d^{8}\right)^{4}=$ $\qquad$ 10. $\left(8 a^{3} b^{2} c\right)^{2}=$ $\qquad$
9. Jack wrote $\left(4^{5}\right)^{2}=4^{7} \quad$ Explain his error.

Write the correct solution: $\qquad$
12. Evaluate completely: No calculator. Show all work. Remember to use exponent rules.

$$
2^{5} \div(6-4)^{3}-1^{17}+(-2)^{3}+\left(4^{2}\right)^{0}
$$

