Exponents: Worksheet -5

1. If $3^x = 90$ then 3^{x-2} = _ _ _ _ _ _ _

2. In $(5x)^2$, the base is _ _ _ _ _ _ _

3. x . x . x . x . y .y .y in the exponential form = _ _ _ _ _ _

4. The value of $3(x-1)^2$ when x = 6 is _ _ _ _ _ _ _

5. If $2^x = a$, then 2^{-x} = _ _ _ _ _ _

6. $\sqrt{a^0}$ =_ _ _ _ _ _

7. $\left(4^0 - 3^0\right) \times 6^0$ =_ _ _ _ _ _

8. If $\left(\frac{5}{2}\right)^2 \times \left(\frac{5}{2}\right)^{a+4} = \left(\frac{5}{2}\right)^7$, then a = _ _ _ _ _ _ _

9. If $3^x = 90$, then 3^{x+1} =_ _ _ _ _ _ _ _

10. To get 3^{a-2}, you should multiply 3^a with _ _ _ _ _ _ _