



Name _____

Exponent Puzzle

Directions: Fill in the missing exponent or base so each equation is true.

1. $x^4 \cdot x^{\square} = x^9$

Answer: _____

2. $\frac{m^8}{m^{\square}} = m^3$

Answer: _____

3. $(a^2)^3 = a^{\square}$

Answer: _____

4. $(\square)^5 = b^5$

Answer: _____

5. $y^{\square} \cdot y^2 = y^7$

Answer: _____

6. $\frac{c^9}{c^4} = c^{\square}$

Answer: _____

7. $(n^4)^2 = n^{\square}$

Answer: _____

8. $(3p)^2 = 3^2 \cdot \square^2$

Answer: _____

9. $\frac{r^{10}}{r^{\square}} = r^4$

Answer: _____

10. $(\square)^3 = q^3$

Answer: _____