## Part 2: Multiplication of Exponents (Same Base)

MATHS EXPONENT

1. Simplify the following using the rule $a^m \times a^n = a^{m+n}$:
   - a) $2^2 \times 2^3 =$
   - b) $5^1 \times 5^4 =$
   - c) $x^3 \times x^5 =$
   - d) $a^2 \times a^7 =$
2. Evaluate after simplifying:
   - a) $3^2 \times 3^1 =$ =
   - b) $2^4 \times 2^2 =$ =

## Part 3: Division of Exponents (Same Base)

1. Simplify the following using the rule $a^m \div a^n = a^{m-n}$:
   - a) $5^5 \div 5^2 =$
   - b) $7^6 \div 7^3 =$
   - c) $x^8 \div x^4 =$
   - d) $a^9 \div a^6 =$
2. Evaluate after simplifying:
   - a) $2^5 \div 2^3 =$ =

   b) $6^7 \div 6^4 =$ =

   c) $\frac{x^7}{x^3} =$ =

LIVEWORKSHEETS