CollisonDeih Maths   **Indiced- Mixed Laws**   dd / mm / yyyy

1.

Simplify:
$3^2 \times 3^3$

2.

Write $(3^3)^1$ as a power of 3.

3.

Write $(2^4)^3$ as a power of 2.

4.

Simplify:
$2^3 \div 2^2$

5.

Simplify:
$4^4 \times 4^5$

6.

Simplify:
$2^3 \times 2^{-5}$

7.

Simplify:
$5^1 \div 5^6$

8.

Simplify:
$5^{-2} \times 5^{-2}$

9.

Write $(64^5)^5$ as a power of 4.

10.

Write $(81^2)^{10}$ as a power of 3.

11.

Simplify:
$2^6 \div 2^3$

12.

Simplify:
$4^6 \times 4^{-1}$

Answer Key

1. 3^5	**2.** 3^3	**3.** 2^{12}	**4.** 2^1
5. 4^9	**6.** 2^{-2}	**7.** 5^{-5}	**8.** 5^{-4}
9. 4^{75}	**10.** 3^{80}	**11.** 2^3	**12.** 4^5