Name: Grade:

Laws of indices

Drag the correct options.

1. Product law of indices: If a^m and a^n are any two terms with the same base **a** and the powers **m** and **n** respectively, then

$$\boxed{a^m \times a^n} \quad = \quad \boxed{}$$

2. Quotient law of indices: If a^m and a^n are any two terms with the same base **a** and the powers **m** and **n** respectively, then

$$\boxed{a^m \div a^n} \quad = \quad \boxed{} \quad \text{if } m>n$$

$$\boxed{a^m \div a^n} \quad = \quad \boxed{} \quad \text{if } m<n$$

3. Power law of indices: If $(a^m)^n$ is any terms with base **a** and the power **n** on power **m**, then

$$\boxed{(a^m)^n} \quad = \quad \boxed{}$$

4. law of zero index: If a^0 is any term with base **a** and the power **0**, then

$$\boxed{a^0} \quad = \quad \boxed{}$$

5. Root law of index: If $\sqrt[n]{a^m}$ is any term with root 'n' base **a** and the power **m**, then

$$\boxed{\sqrt[n]{a^m}} \quad = \quad \boxed{}$$

$\dfrac{1}{a^{n-m}}$	$a^{m/n}$	$a^{m \times n}$
a^{m-n}	a^{m+n}	1