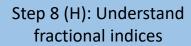
Year 8 Mathematics Learning Journey: Unit 11 - Indices



Put the following cards in descending order of size.



Step 7 (H): Understand negative indices

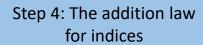
Will a number raised to a negative power always, sometimes or never have a negative value?

Step 6 (H): Exploring powers of powers

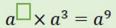
Dani thinks $(2x^4)^3 \equiv 6x^{12}$. What mistake has Dani made?

Step 4: The addition law for indices

What is the difference between a 'base' and an 'index'?



Work out the missing value



Step 5: Addition and subtraction laws for indices

Work out the missing value

$$b^8 \div b^4 \times b^{\square} \equiv b^4$$

Step 3: Divide expressions with indices

 $30a^{2}b \div 5ab^{2}$

Step 2: Multiply expressions with indices

Expand and simplify $6a \times 3b \times 2a + 5ab(3b - 2a)$ Step 1: Add and subtract expressions with indices

Simplify $5x^3 + 6x^2 - 4x^2 - 2x^3$



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