

name:

date:

INDEX LAWS

AIM & OBJECTIVES:

To be able to simplify expressions using the laws of indices.

OBJECTIVE:

I can apply the laws of indices to simple multiplication problems such as $n^7 x n^3$

I can apply the laws of indices to simple division problems such as $n^7 \div n^3$

I can apply the laws of indices to powers of powers such as $(n^7)^3$

I can apply the laws of indices to more complex multiplication problems such as $2n^7 x 4n^3$

I can apply the laws of indices to more complex division problems such as $8n^7 \div 4n^3$

I can apply the laws of indices to more complex powers problems such as $(2n^7)^3$

I can apply the laws of indices to simple fractional problems

I can apply the laws of indices to more complex fractional problems



index notation, power, exponent, coefficient, integer, multiply, divide, brackets, fraction

WHILE YOU WAIT... 🕒

 State the value of n in each question

 1. $2 \times 2 \times 2 \times 2 = 2^n$ n=____

 2. $5 \times 5 \times 5 \times 5 \times 5 = 5^n$ n=____

 3. $a \times a \times a = a^n$ n=____

 4. $y \times y \times y \times y \times y = y^n$ n=____

 7. $1 = 8^n$ n=____

 8. $y \times y \times y \times y = y^n$ n=____

 7. $1 = y^n$ n=_____

 8. $2 \times 2 \times 2 \times 2 = 2^n$ n=_____

 9. $2 \times 5 \times 5 \times 5 \times 5 \times 5 \times 5 = 5^n$ n=_____

 9. $3 \times 4 \times 4 = a^n$ n=_____

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 1. $2 \times 2 \times 2 \times 2 \times 2 = (2n)^n$ n=_____

 2. $3ab \times 3ab \times 3ab \times 3ab = (3ab)^n$ n=____

Pick out Nice facts









