Exponents and Scientific Notation Assignment

Instructions:

Students get into pairs. Each pair gets one of each sheet (A and B). Decide who completes sheet A and who completes sheet B.

Each student individually comes up with questions in the left column (Questions I Create). They do not solve them at this point.

Students then write their questions on their partner's sheet in the right column (Questions I Answer).

Both students now complete both sets of questions – the ones they created and the ones their partner created.

When done, students check that they both got the same answers for all their questions, discuss any differences and resolve any errors.

Staple the sheets together and hand them in.

Your Name	Group
Partner's Name	

Exponents and Scientific Notation Assignment A

Questions I Create (and solve)	Questions I Answer (from my partner)		
Multiplying with the same base	Multiplying with the same base (multiple terms)		
Ex: Simplify $a^8 \times a^{11}$	Ex: Simplify $3x^3z^{11} \cdot 5xz^4$		
Question:	Question:		
Solution:	Solution:		
Solution.	Solution.		
Dividing with the same base (multiple terms)	Dividing with the same base		
Ex: Simplify $15x^3z^{11} \div 5xz^4$	_		
2. S.	Ex: Simplify $\frac{a^{13}}{a^{11}}$		
Question:	Question:		
	Question.		
Solution:			
	Solution:		
Exponent with an exponent	Exponent with an exponent (multiple terms)		
Ex: Simplify $(x^5)^7$	Ex: Simplify $(3a^2bc^4)^5$		
Question:	Question:		
Solution:	Solution:		

Negative exponents	Negative exponents (and positive ones)		
Ex: Write using positive exponents g^{-12}	Ex: Write using positive exponents $a^{-2}x^4z^{-12}$		
Question:	Question:		
	- Caracian		
Solution:	Solution:		
Scientific Notation (large numbers)	Scientific Notation (small numbers)		
Ex: Write in scientific notation 1 250 000 000	Write in scientific notation 0.0000098		
Question:	Question:		
Question:	- Control of the cont		
Solution:	Solution:		
Solution.	Solution.		
Multiplying numbers in scientific notation	Dividing numbers in scientific notation		
Ex: Solve the following and write your answer in	Ex: Solve the following and write your answer in		
scientific notation $(3.2 \times 10^{-2})(4.7 \times 10^{7})$	scientific notation $(7.2 \times 10^9) \div (6.8 \times 10^{-3})$		
	Scientific flotation (7.2 \times 10) \div (0.0 \times 10)		
Overtions	Overtions		
Question:	Question:		
Solution:	Solution:		
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Your Name	Group		
Partner's Name			

Exponents and Scientific Notation Assignment B

Questions I Create (and solve)	Questions I Answer (from my partner)		
Multiplying with the same base (multiple terms)	Multiplying with the same base		
Ex: Simplify $3x^3z^{11} \cdot 5xz^4$	Ex: Simplify $a^8 \times a^{11}$		
Question:	Question:		
Calution	Calutian		
Solution:	Solution:		
Dividing with the same base	Dividing with the same base (multiple terms)		
Ex: Simplify $\frac{a^{13}}{a^{11}}$	Ex: Simplify $15x^3z^{11} \div 5xz^4$		
u	Question:		
Question:	Question.		
	Solution:		
Solution:			
Exponent with an exponent (multiple terms)	Exponent with an exponent		
Ex: Simplify $(3a^2bc^4)^5$	Ex: Simplify $(x^5)^7$		
Question:	Question:		
Solution:	Solution:		

Negative exponents (and positive ones)	Negative exponents		
Ex: Write using positive exponents $a^{-2}x^4z^{-12}$	Ex: Write using positive exponents g^{-12}		
Question:	Question:		
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Solution:	Solution:		
Scientific Notation (small numbers)	Scientific Notation (large numbers)		
Write in scientific notation 0.00000098	Ex: Write in scientific notation 1 250 000 000		
Question:	Question:		
Solution:	Solution:		
Dividing numbers in scientific notation	Multiplying numbers in scientific notation		
Ex: Solve the following and write your answer in	Ex: Solve the following and write your answer in		
scientific notation $(7.2 \times 10^9) \div (6.8 \times 10^{-3})$	scientific notation $(3.2 \times 10^{-2})(4.7 \times 10^{7})$		
Question:	Question:		
Solution:	Solution:		