## 8.1 Multiplying Exponents Warm-Up

From the set of problems below, complete as many as you can. Of the ones you pick, you can pick 2 problems that you are very confident with and 2 that you want to see more for practice.

1) 
$$b^4b^3$$

2) 
$$8a^2 \cdot 6a^2 \cdot 7a^3$$

3) 
$$2v^3 \cdot 6v^2$$

4) 
$$2k \cdot 4k$$

5) 
$$7n^4 \cdot 7n^3$$

6) 
$$(x^3)^3$$

7) 
$$(3p^2)^3$$

8) 
$$(8v^2)^4$$

9) 
$$(3n)^2$$

10) 
$$(4xx^2)^2$$

11) 
$$(4r^4 \cdot 3r^4)^2$$

12) 
$$2n^2 \cdot (2n^2)^3$$

13) 
$$(2m^4 \cdot m)^3$$

14) 
$$4b^{-2} \cdot b^2$$

15) 
$$n^2 \cdot 3n^{-2}$$

Name:	Date:		
Marm In Quiz Self Assess			

Q	#	/5	Reason
1.			
2.			
3.			
4.			
5.			

Your Total Score: \_\_\_\_/25

- 1. What exponent concepts are you struggling with?
- 2. Which exponent concepts are you feeling comfortable with?
- 3. How do you think you can improve with working on exponents?

Name:	
Warm-Un Quiz	Self-Access

Date:  $\frac{2}{22}/3$ 

Q	#	/5	Reason
1.	2	5	all I had to was multiply 2+5, + add the exponents
2.	3	5	I followed through the same process as the
3.	8	5	all I had to do was carry the exponent
4.	Colombia	0	I didn't under stand what to do, I need help . with negative exponents, & division with exponents
5.	13	5	easy to understand & comprehend
Your	Tota	Score:	/25

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١.	vvilat	exponent	rules	are	you	struggling	with?

Quient of power prop, + Negative Exponents

2. Which exponent rules are you feeling comfortable with?

everything else

3. How do you think you can improve with working on exponents?

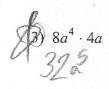
reviewing notes, asking questions

Warm-Up

Date\_\_\_\_\_Period

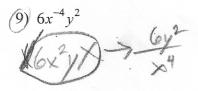
From the set of problems below pick 5 to complete. 2 of the problems can be ones that you feel very confident with, but you need to pick 3 problems between numbers 5-14.

1) 
$$3r^3 \cdot 6r^3 \cdot 4r^2$$



$$5) \ \frac{5x}{3x^4}$$

7) 
$$\frac{3nm^4}{6m^4n^3}$$



11) 
$$\frac{7n^{-3}}{n^4}$$

(13) 
$$(n^3)^2 n^2 \cdot 4n$$
  
 $n^8 \cdot 4n = 4n^9$ 

15) 
$$\left(\frac{2r^2}{r^2 \cdot 4r^{-4}}\right)^3$$

$$\begin{array}{c} (2) \ 5k^3 \cdot 2k \\ 10 \ k^5 \end{array}$$

4) 
$$\frac{6n^4}{3n^3}$$

6) 
$$\frac{6x^2y^2}{2x^4y^3}$$

$$48)(8x^4)^2$$
 $64x^8$ 

$$10) \left(\frac{2n^2 \cdot 4n^3}{n^3}\right)^4$$

12) 
$$\frac{3x^0}{5x^2 \cdot x^4}$$

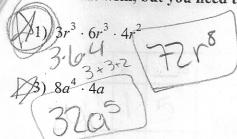
14) 
$$\left(\frac{4m^4}{m^{-2} \cdot 4m^3}\right)^3$$

Q	#	/5	Reason
1.	1	5	mulphyed he numbers and added the
	1	)	aparets
2.	11	6	divided to by 3 and subtracted the
	9	")	exponets
3.	5	M	subtracted the expands and left.
	1	J	the fraction because it could not be sing
4.	2	F	distributed the export and simplified
	U	)	my answer
5.	12	9	distributed he expone , then combined like
	11		terms and simplified my answer.

1. What exponent rules are you struggling with? positive export to regatives exports. 2. Which exponent rules are you feeling comfortable with? mutliplying (some) division, subtraction, zeros, and 3. How do you think you can improve with working on exponents? proefice those skills more, and getting Wother explanation on hav

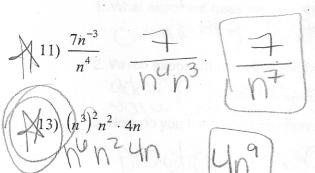
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From the set of problems below pick 5 to complete. 2 of the problems can be ones that you feel very confident with, but you need to pick 3 problems between numbers 5-14.



$$7) \frac{3nm^4}{6m^4n^3} \frac{1}{202}$$

9) 
$$6x^{-4}y^2$$
  $y^2$ 

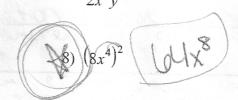


15) 
$$\left(\frac{2r^{2}}{r^{2}\cdot 4r^{-4}}\right)^{3}$$

$$\frac{7^{3}r^{6}}{r^{6}\cdot 4r^{3}}$$

$$\frac{7^{3}r^{6}}{r^{6}\cdot 4r^{3}}$$

$$\frac{7^{3}r^{6}}{r^{6}\cdot 4r^{3}}$$



10) 
$$\left(\frac{2n^2 \cdot 4n^3}{n^3}\right)^4$$

$$12) \frac{3x^0}{5x^2 \cdot x^4} \quad \underbrace{3}_{\text{OW}}$$

$$14) \left( \frac{4m^4}{m^{-2} \cdot 4m^3} \right)^3$$

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