Warm Up
back of 19

$\frac{-42}{7}$ -6 $-6 \bullet 3$ -18 $4 \bullet -8$ -32 $\frac{-144}{-12}$ 12

$-8+11$ 3 $5-(-15)$ 20

$-5 \bullet 3+4$

$-15+4$

-11

Homework

ACTIVITY 15 Name _____

−12	−6	−6	8	−9	−9	−12	−6	−6	8
14	−18	−3	−8	−14	−14	14	−18	−3	−8
−4	12	12	6	4	4	−4	12	12	6
8	−9	−9	−12	−6	−6	8	−9	−9	−12
−8	18	18	14	−18	−3	−8	18	18	14
6	4	4	−4	12	12	6	4	4	−4
−12	−6	−6	8	3	3	−12	−6	−6	8
14	−18	−3	−8	−14	−14	14	−18	−3	−8
−4	12	12	6	4	4	−4	12	12	6
8	3	3	−12	9	9	8	3	3	−12

Multiply.

(−2)(−3) 6

(−2)(2) −4

(3)(−4) −12

(−2)(−4) 8

(−2)(7) −14

(3)(−3) −9

(3)(−1) −3

(−1)(−4) 4

(−2)(9) −18

(−6)(−2) 12

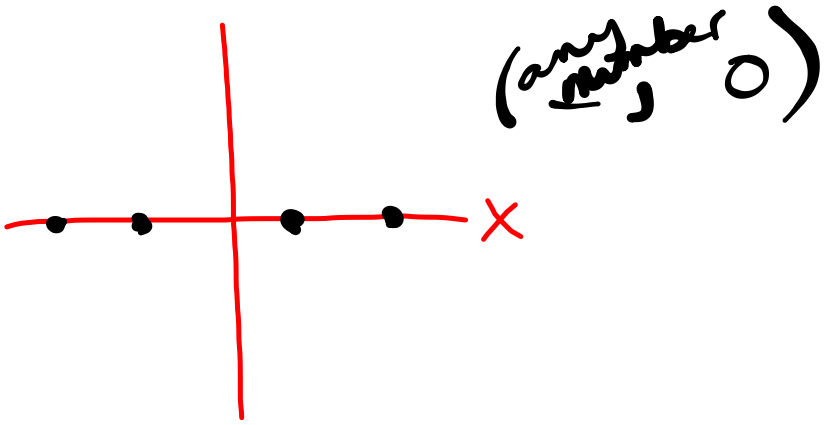
(−1)(8) −8

(−3)(2) −6

(−7)(−2) 14

(−1)(−3) 3

(−6)(−3) 18


(any number ≠ 0)
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Kahoot Integer review

Math Antics introduce exponents

Powers of Ten

Reporting Category	Number and Number Sense
Topic	Describing the concept of negative exponents for powers of ten
Primary SOL	7.1a The student will investigate and describe the concept of negative exponents for powers of ten.

Name _____ **Date** _____

1. Complete the chart.

Power of Ten	Expanded Form	Product
10^5	$10 \cdot 10 \cdot 10 \cdot 10 \cdot 10$	100,000
10^4	$10 \cdot 10 \cdot 10 \cdot 10$	10,000
10^3	$10 \cdot 10 \cdot 10$	1000
10^2	$10 \cdot 10$	100
10^1	10	10
10^0	1	1

1) What patterns do you see?

2) What would 10^6 be? 1,000,000

3) Predict what 10^9 would be. 1,000,000,000

4) Following the pattern in the chart, what is 10^0? 1
Based on this pattern, what do you predict that 10^{-1} would be? 0.1, $\frac{1}{10}$

5. Complete the chart

Power of Ten	Expanded Form	Product	
		Decimals	Fractions
10^0	1	1	1
10^{-1}	$\frac{1}{10}$	.1	$\frac{1}{10}$
10^{-2}	$\frac{1}{10} \cdot \frac{1}{10}$	.01	$\frac{1}{100}$
10^{-3}	$\frac{1}{10} \cdot \frac{1}{10} \cdot \frac{1}{10}$	.001	$\frac{1}{1000}$
10^{-4}	$\frac{1}{10} \cdot \frac{1}{10} \cdot \frac{1}{10} \cdot \frac{1}{10}$	.0001	$\frac{1}{10,000}$
10^{-5}	$\frac{1}{10} \cdot \frac{1}{10} \cdot \frac{1}{10} \cdot \frac{1}{10} \cdot \frac{1}{10}$	.00001	$\frac{1}{100,000}$

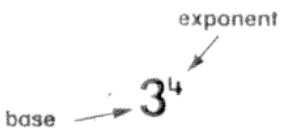
6) What patterns do you see?

7) What would 10^{-6} be? 0.000001 $\frac{1}{1,000,000}$

8) Predict what 10^{-9} would be. 0.000000001 $\frac{1}{1,000,000,000}$

What is an Exponent?

An exponent shows how many times a number (called the base) is used as a factor.



For example, in the value 2^4, (pronounced two to the fourth power) the exponent 4 tells you how many times the base 2 is multiplied by itself. In this case, the problem becomes 2 x 2 x 2 x 2 and the answer is 16.

Directions: Use a ruler to draw a straight line between the exponent and its value. A correctly drawn line will cross a number and a letter. The number tells you where to put the letter at the bottom of the page. When you are all done, decode the daffy definition.

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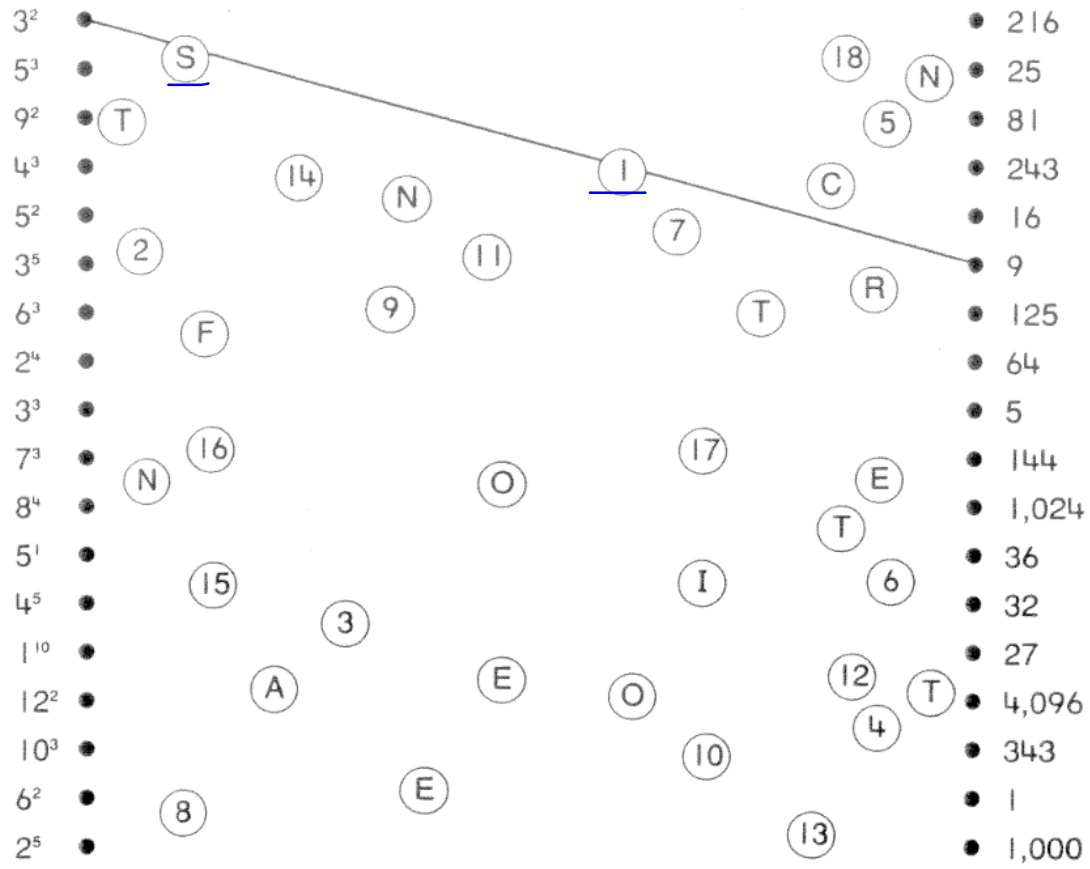

Daffy Definition: Skunk

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1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18

1) Quiz

2) Exponents ws

3)IXL *7th Grade*

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Lessons P.1, P.2 (coordinate plane)

I.1, I.2 (exponents)