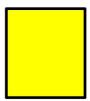
DHW CHECK

Box 1: Exponents Day 1 #9

Box 2: Exponents Day 1 #18



Warm-up

1. A rectangular swimming pool has a width that is 6 feet less than its length. The perimeter of the pool is 84 feet. What is the length of the pool?

A. 18 ft

x+x-6+x-6+x=84x-6

P=84

B. 21 ft

4x - 12 = 84

4x-12+12=84+12 (add. prop.=)

D. 36 ft

4x = 96

4x = 96 (div. prop. =)

2. If the equation 5(3x + 7) - 1 = 3(5x + k) + 4 has infinitely many solutions, what is the value of k?

A. 7

15x+35-1=15x+3K+4 same

15x+34=15x+3K+4

D. 30

34-4=3K+4-4 (snbt.prop.=)

Zero and Negative Exponents

Description Exponents

Expanded Form and Exponential Form

Simplifying Powers

Evaluating Expressions

Zero Exponents

Negative Exponents

*Any number or variable to the zero power equals 1!! $E \times 1$ 3°=1 $E \times 2$ (-0.25)°= $E \times 3$ (-7)°= | $E \times 4$ -4°=-| $E \times 5$ 3°.4= |.4=4 $E \times 6$ 3a°= 3. |=3

Zero Exponents

* You cannot have a negative exponent!

-If there is a negative exponent, change the position (negative exponent in numerator -> denominator (whom), negative exponent in denominator -> numerator (top))

- When you change the position, the exponent becomes positive.

* If it's not a fraction, put a 1 in the denominator and then move it!

Ex 1)
$$10^{-4} = 10^{-4}$$
 = 10^{-4} = $10,000$
Ex 2) $2^{-3} = 2^{-3}$ = $12 = 10$
Ex 3) $a^{-2}b^{4} = 2^{-3}b^{4}$ = $10,000$

Negative Exponents