Warm-up

1)

2)

Which set of numbers does not contain 70? Which expression is equivalent to 13x - 2(3x + 6)?

A. integers

A. -5x

B. whole numbers

B. 7x - 12

C. natural numbers

C. 7x + 12

D. irrational numbers

- **D.** 19x + 12
- 3) Between which two integers does √115 lie?

4)

How many solutions does the equation 5(x-2)=8+5x have?

Warm-up

1)

2)

Which set of numbers does not contain 70? Which expression is equivalent to 13x - 2(3x + 6)?

A. integers ✓

A. -5x

13x-6x-12

B. whole numbers

B. 7x - 12

7x - 12

C. natural numbers

C. 7x + 12

irrational numbers

D. 19x + 12

Between which two integers does $\sqrt{115}$ lie?

4)

10021152121 1021115211 100211152121 between 10 and 11

How many solutions does the equation 5(x-2)=8+5x have?

4) 5(x-2) = 8+5x 5x-10 = 8+5x (dist. prop) 5x-5x-10 = 8+5x-5x (subt. prop.=) $-10 \neq 8$ no solution Daily HW Check:

NS and Equation Review: 5

NS and Equation Review: 12

Go to my weebly to check your answers.

Exponential Form, Simplifying Powers, and Evaluating Expressions Foldable

Expanded Form and Exponential Form

Simplifying Powers

Evaluating Expressions

12 x 4 -> exponent/power coefficient	nd Exponential Tani
Examples: Expanded Form	Exponential Form
2) (-4)(-4)(-4) 3) 8-8-8-p-p-p-p 4) (1/2)(1/2)(1/2) 2-2-2-2	(-4) ³
4) (/2)(1/2)(1/2) 2.2.2.2	# (\frac{1}{a}) \frac{1}{3} \frac{4}{2}

Ex1)
$$3^{4} = 3.3.3.3 = 81$$

Ex2) $(\frac{1}{4})^{2} = \frac{1}{4} \cdot \frac{1}{4} = \frac{1}{16}$
Ex3) $(-8)^{2} = -8.-8 = 64$
Ex4) $-2^{3} = -2.2.2 = -8$
Ex5) $3^{2}u^{6} = 3.3.4.4.4$
Ex6) $(-6)^{3} = -6.-6.-6 = -216$

Simplifying Powers

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Step 1: Plug in all given numbers into the variables... use parenthesis!

Step 2: Solve using order of operations

E \times 1) b^2 for b = -7
E \times 2) X \div y^2 for x = 9 y = 3
(-7)^2 = -7 \cdot -7 = 49

E \times 3) x - y(2 \cdot y^2) for x = 20,
20 - 4(2 \cdot 4^2)
20 - 4(32)
20 - 4(32)
20 - 128
-108

Evaluating Expressions
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