DAY 5

1st 5 No Calculator

Identify the following properties illustrated here.

1. $3.2(0)=0$ Mult. prop. of zero
2. $\frac{7}{8}\cdot\frac{8}{7}=1$ Inverse prop. of mult. $6+(-6)=0$ ✓
3. $-3(-1)=3$ mult. prop. of -1
4. $-3(1)=-3$ Identity $-3+0=-3$ ✓

Numbers Day 5

Graph each set on the number line.

1. {whole numbers less than 5}
2. {$\mathbb{R} \geq 3$}
3. {natural numbers less than 4}
4. {real numbers between -4 and 2, inclusive}

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5. {integers ≤ -4}
6. {real numbers between -2 and 7, including 7}
7. {whole > 6}
8. {$-7 \leq$ real numbers < -1}

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9. {natural ≥ 6}
10. {$-5 < Z < 0$}

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2) 54	22) −200	38) −15
6) 196	26) 32	42) 72
10) 120	30) 16	46) −4
14) −2	34) −120	
18) 112		

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46. $4s \div (-3t)$ for $s = -6$ and $t = -2$

$4(-6) \div (-3(-2))$

$4(-6) \div (6)$

$-24 \div 6 = -4$

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Simplifying expressions

- Combining Like terms

$6x+3x=9x$

$-10xy+4xy+3$ $-6xy+3$

$7x^2-3x-4x^2+8$ $3x^2-3x+8$

$-24f+16-18g+25$ $-24f-18g+41$

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DAY 5

The Distributive Property

- For every real number a, b, and c,

$$a(b+c)=ab+ac \quad (b+c)a=ab+ac$$

$$a(b-c)=ab-ac \quad (b-c)a=ab-ac$$

- Examples

$25(10-3)=25\bullet 10-25\bullet 3$

$25\cdot 7=175$ $250-75=175$

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DAY 5

The Distributive Property

- Simplifying an Expression

$2(5x+3)= \quad 2\bullet 5x+2\bullet 3= \quad 10x+6$

$(3b-2)\frac{1}{3}= \quad \frac{1}{3}\bullet 3b-\frac{1}{3}\bullet 2= \quad b-\frac{2}{3}$

$\frac{3}{3}=1 \quad \frac{2}{3}$

$2(3-7t)= \quad 2\bullet 3-2\bullet 7t= \quad 6-14t$

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DAY 5

$a-b=a+(-b)$

The Distributive Property

- Simplifying an Expression

$-(6x+4)= \quad -1\bullet 6x+(-1)\bullet 4=$

$-6x+(-4)= \quad -6x-4$

$-(7-5b)= \quad -1\bullet 7-(-1)\bullet 5b=$

$-7-(-5b)= \quad -7+5b=$

Numbers Day 5

DAY 5

Practice Work # 6 (PW 6)

- Worksheets – Combining like terms & p. 13 workbook

Numbers Day 5