

DAY 1A

1<sup>st</sup> 5      No Calculator

Simplify.

1.  $3(n-2) - (2n-3) + 4n - 1$
2.  $-2(5-x) + (3x-1)2 - 3(-x-5)$

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## Properties

Objective: Practice recognizing the properties of algebra.

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## Adding Real Numbers

- ⊙ Identity Property of Addition
  - > For every real number  $n$ ,
  - >
- ⊙ The opposite of a number is its
- ⊙ Inverse Property of Addition
  - > For every real number  $n$ , there is an additive inverse  $-n$  such that
  - >

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## Multiplying and Dividing Real Numbers

- ⊙ Identity Property of Multiplication
  - > For every real number  $n$ ,
  - $1 \bullet (-2) =$
  - $1 \bullet 2 =$

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## Multiplying and Dividing Real Numbers

- ⊙ Multiplication Property of Zero
  - > For every real number  $n$ ,
  - $0 \bullet (-2) =$
  - $0 \bullet 2 =$

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⊙ Multiplication Property of - 1

> For every real number  $n$ ,

$$5 \bullet (-1) =$$

$$-5 \bullet (-1) =$$

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⊙ Inverse Property of Multiplication

For every nonzero number  $a$ , there is a multiplicative inverse  $\frac{1}{a}$  such that

The \_\_\_\_\_, or reciprocal, of a nonzero number  $\frac{a}{b}$  is  $\frac{b}{a}$

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Commutative Properties of Addition and Multiplication

For any numbers  $a$  and  $b$ ,

$$a + b =$$

The order in which numbers are added

For any numbers  $a$  and  $b$ ,

$$a \cdot b =$$

The order in which numbers are multiplied

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Associative Properties of Addition and Multiplication

For any numbers  $a$ ,  $b$ , and  $c$ ,

$$(a + b) + c =$$

The way in which addends are grouped

$$(5 + 3) + 1 =$$

For any numbers  $a$ ,  $b$  and  $c$ ,

$$(a \cdot b) \cdot c =$$

The way in which numbers are grouped does not change the product.

$$(2 \cdot 6) \cdot 7 =$$

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$$22 \cdot 1 = 22$$

$$3 \cdot 7 \cdot 0 = 0$$

$$22 \cdot 1 = 1 \cdot 22$$

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$$0 + 9 = 9 + 0$$

$$8cd = 8dc$$

$$1m = m$$

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$$8t + 6 = 6 + 8t$$

$$(7a)b = 7(ab)$$

$$7 + (2 + u) = (7 + 2) + u$$

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$$5 + 9 = 9 + 5$$

$$(y + 7) + 6 = y + (7 + 6)$$

$$(7 + y)0 = 0$$

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$$1 \cdot 22 = 22$$

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

$$xyz = zxy$$

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$$22 + 0 = 22$$

$$3b + 3bc = 3b(1 + c)$$

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## Practice Work # 10 (PW 10)

⦿ Workbook pg. 16

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