7th Grade Remote Learning Lesson 3: Subtracting Intege

Subtract positive integers.

$$12 - 15$$

$$12 - 15 = 12 + (-15)$$

Rewrite subtraction as adding the opposite.

Using absolute values,

$$|-15| - |12| = 15 - 12$$

Subtract the absolute values, because the addends have different signs.

Simplify.

$$12 - 15 = 12 + (-15)$$

= -3

Use a negative sign, because -15 has a greater absolute value.

Evaluate each expression.

$$1. 18 - 32$$

$$2. 15 - 27$$

Subtract negative integers.

Example

$$23 - (-6) = 23 + 6$$

Rewrite subtraction as adding the opposite.

Add.

$$-12 - (-28) = -12 + 28$$

Rewrite subtraction as adding the opposite.

Using absolute values,

$$|-28| - |-12| = 28 - 12$$

Subtract the absolute values.

Simplify.

$$-12 - (-28) = -12 + 28$$

= 16

Use a positive sign, because -28 has a greater absolute value.

Evaluate each expression.

1.
$$17 - (-6)$$

$$2. -19 - (-11)$$

ADDING AND SUBTRACTING INTEGERS

Directions: Using the digits 1 to 6, at most one time each, fill in the boxes so that top two equations are equal and the bottom equation has the greatest value.

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