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## Part 1

Draw each addition problem using arrows on the number line, and write the sum. The first one is done as an example.

(1) $-9+(-1)=$

(2) $-6+(2)=$

(3) $4+(-3)=$


## Part 2

Find the sums.
(1) $-8+(-8)=$
$49+(-6)=$
(7) $-26+(-11)=$
$(2) 14+(-5)=$
(5) $-7+15=$
(8) $16+(-20)=$
(3) $-12+(-3)=$
(6) $30+(-5)=$
(9) $-18+30=$
$\qquad$

## Part 3

Solve the following problems.

1 Kia got a notice from the bank that she spent more money than was in her account, so her account balance is now -\$40. Then, she put $\$ 60$ into her account.
a. Write an equation that you can use to find Kia's new account balance.
b. What is Kia's new account balance?
c. Is your answer a positive or negative integer? Why?

2 The temperature in Chicago was -10 degrees Fahrenheit. It then rose 5 degrees.
a. Write an equation that you can use to find the new temperature.
b. What is the new temperature?
c. Is your answer a positive or negative integer? Why?

3 A submarine is 500 feet below sea level. Then, it descends 200 more feet below sea level.
a. Write an equation that you can use to find the new position of the submarine.
b. What is the new position of the submarine?
c. Is your answer a positive or negative integer? Why?

Name $\qquad$ Date $\qquad$

## Part 4

Choose the rule for adding integers with the same signs or the rule for adding integers with different signs. In your own words, explain why this rule gives you the correct sum.

## Rules:

To add integers with the same signs, add their absolute values and keep the signs.

To add integers with different signs, subtract their absolute values and keep the sign of the integer with the greater absolute value.

