

Name \_\_\_\_\_

HW # \_\_\_\_\_

1.  $-5 + 9$

2.  $-7 + (-12)$

3.  $8 - 12$

4.  $10 + (-32)$

5.  $54 + (-11)$

6.  $26 + (-26)$

7.  $-4 - 16$

8.  $16 - (-7)$

9.  $-4 - (-10)$

10. You know that the sum of  $-5$  and another integer is a positive integer. What can you conclude about the sign of the other integer? What can you conclude about the value of the other integer?

11. A seal is swimming in the ocean 5 feet below sea level. It dives down 12 feet to catch some fish. Then the seal swims 8 feet up towards the surface with its catch. What is the seal's final elevation relative to sea level? Write and evaluate an expression of integers to represent this situation.

12. A scientist conducts an experiment in which he records the temperature of a gas that he has heated. The table below shows the initial temperature and the final temperature of the gas.

Initial Temperature	Final Temperature
$-21^{\circ}\text{C}$	$-8^{\circ}\text{C}$

a) Write a difference of integers to find the overall temperature change.

b) Suppose the scientist conducted an experiment in which he cooled the gas. Will the change in temperature be positive or negative? Explain