

MONDAY  
Sept. 14, 2015

## WARM-UP

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Evaluate the following expressions

1)  $27 + 27 =$

2)  $19 - 19 =$

3)  $27 - 27 =$

4)  $19 + 19 =$

5)  $27 + (-27) =$

6)  $19 + (-19) =$

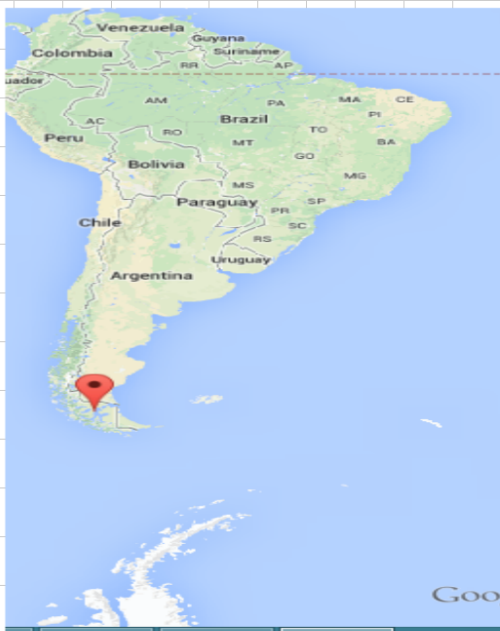
7)  $-27 + (-27) =$

8)  $-19 + (-19) =$

In three or more complete sentences,  
tell what you've discovered.

# LAUNCH TIME: GLOBAL AWARENESS

Punta Arenas is a city located on the southern tip of Chile, only 843 miles away from Antarctica.



During the fall season, the temperature in Punta Arenas can go from as high as  $8^{\circ}\text{C}$  to as low as  $-15^{\circ}\text{C}$ .

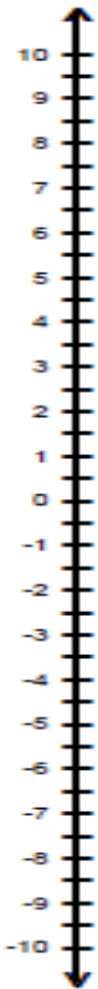


# LAUNCH TIME: GLOBAL AWARENESS

Today, the temperature is expected to be a high of  $9^{\circ}\text{C}$  by 12 noon. By 8pm, the temperature is expected to drop to  $-6^{\circ}\text{C}$ .

Write a mathematical expression to represent the temperature change.

What was the change in today's temperature?



Topic: Word Problem

Lesson Essential Question

What strategies can we use to solve word problems with precision?

**What is IPS?**

A system used to help find (or identify) key **Information**, construct a **Picture**, and arrive at a **Solution**.

**What does this look like?**

INFORMATION	PICTURE	SOLUTION
key details from the problem	draw a visual to help solve	solve using the information and picture

**EXAMPLE**

This past weekend, Mr. Betrand spent \$18 eating at Red Lobsters'. When he checked his bank account, his balance was -\$8. How much money did Mr. Betrand begin with?

**What does this look like?**

INFORMATION	PICTURE	SOLUTION
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**Practice  
#1**

Katherine is very interested in cryogenics (the science of very low temperatures). With the help of her science teacher she is doing an experiment on the effect of low temperatures on bacteria. She cools one sample of bacteria to a temperature of  $-51^{\circ}\text{C}$  and another to  $-76^{\circ}\text{C}$ . What was the temperature difference in the two experiments?

**What  
does this  
look like?**

**INFORMATION**

**PICTURE**

**SOLUTION**

**Worksheet**

**Practice  
#2**

On Tuesday the mailman delivers 3 checks for \$5 each and 2 bills for \$2 each. If you had a starting balance of \$25, what is the ending balance?

**What  
does this  
look like?**

INFORMATION	PICTURE	SOLUTION

**Practice  
#3**

You owe \$225. on your credit card. You make a \$55. payment and then purchase \$87 worth of clothes at Dillards. What is the integer that represents the balance owed on the credit card?

**What  
does this  
look like?**

**INFORMATION**

**PICTURE**

**SOLUTION**

**Worksheet**



**Practice  
#4**

If it is -25F in Rantoul and it is 75F in Honolulu, what is the temperature difference between the two cities?

**What  
does this  
look like?**

**INFORMATION**

**PICTURE**

**SOLUTION**

**Worksheet**

**Practice  
#5**

During the football game, Justin caught three passes. One was for a touchdown and went 52 yards. The other was for a first down and was for 17 yards. The other was on a screen pass that did not work so well and ended up a gain of -10 yards. What was the total yardage gained by Justin on the pass plays?

**What  
does this  
look like?**

**INFORMATION**

**PICTURE**

**SOLUTION**

**Practice  
#6**

James plays in the backfield of the Big Town football team. Last week he ran four plays from the halfback position. He made "gains" measured in yards of 13, 4, 11, and 5. What were his average yards per gain? Round your answer to the nearest tenth of a yard.

**What  
does this  
look like?**

**INFORMATION**

**PICTURE**

**SOLUTION**