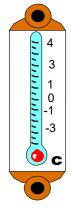


Warm Up Grade 6 Sept. **9**, 2018





a. What number are opposite integers?

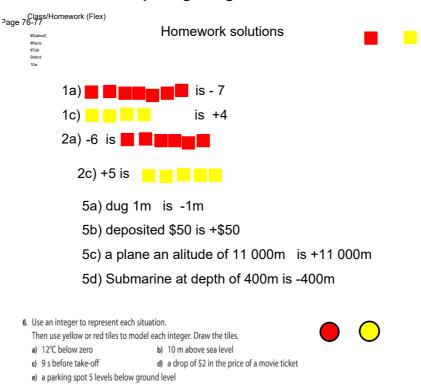
Why?

b. What numbers are not opposite integers?

Why? 4,3 > they are NOT the same (more than lanswer) stance from zero

#2) Write an integer for the following situation:

- A person walks up 8 flights for stairs +8
- An elevator goes down 7 floors 🕳 🧻
- The temperature falls by 7 degrees -7
- Josh deposits \$110 dollars in the bank + 110
- The peak of the mountains is 1123 m above sea level + 1123

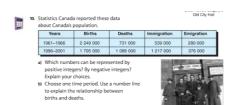


- Describe a situation that could be represented by each integer.
 - a) 125
- b) -22
- c) -900

- d) 42 000
- e) 4
- 9) Bonus 0 is 12 noon



- 9a) 1pm is
- 9b) 10am is
- 9c) 12 midnight is (since same day)
- 9d) 10pm previous day



The difference between "immigrate" and "emigrate" is that "immigrating" is the act of entering a foreign country to live while "emigrating" is the act of leaving a country to live in another.

Birth & Immigration causes population to increase so it is +

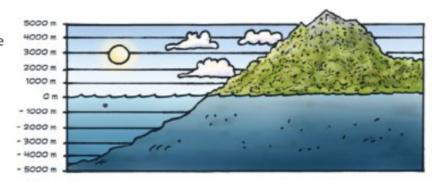
Death & emigration causes population to decrease so it is -

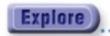
Day 2) Ch. 2 Lesson 9



Comparing and Ordering Integers

Elevation is the height above or below sea level. Elevation influences climate and how people live. For example, crops will not grow at elevations above 5300 m.

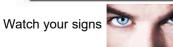




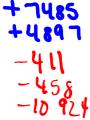


Here are some examples of extreme elevations around the world.

Place	Elevation	
Vinson Massif, Antarctica	4897 m above sea level	4489
Dead Sea, Israel/Jordan	411 m below sea level	-911
Bottom of Great Slave Lake, Canada	458 m below sea level	-458
Mt. Nowshak, Afghanistan		1
Challenger Deep, Pacific Ocean	10 924 m below sea level	1748



Order all the elevations from least to greatest.



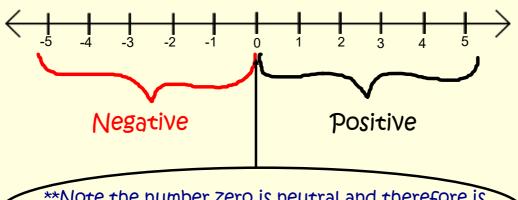


Show and Share

What strategies did you use to order the elevations? What other ways could you display these data to show the different elevations?

copy Comparing and Ordering Integers

A basic integer number line has all of the negative integers located to the left of zero and all of the positive integers located to the right of the zero.



**Note the number zero is neutral and therefore is considered neither negative nor positive.

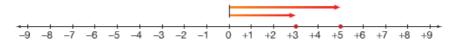
Copy only the underlined yellow Connect

We can use a number line to order integers.

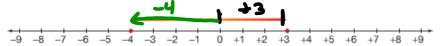
We use the symbols > and < to show order.</p>
The symbol points to the lesser number.

copy this

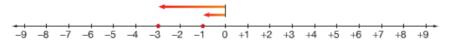




- +5 is to the right of +3 on a number line.
- +5 is greater than +3, so we write: +5 > +3
- +3 is less than +5, so we write: +3 < +5



- +3 is to the right of -4 on a number line.
- +3 is greater than -4, so we write: +3 > -4
- -4 is less than +3, so we write: -4 < +3

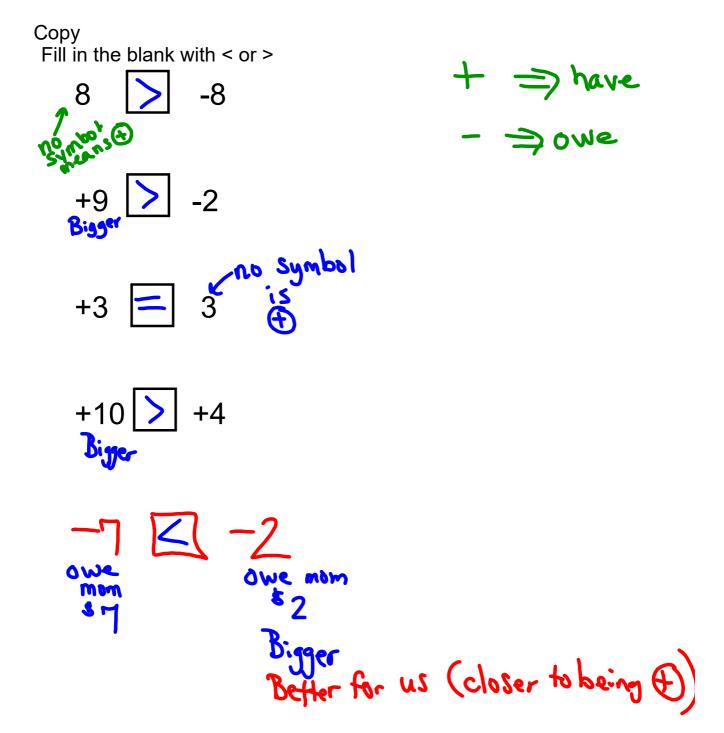


- -3 is to the left of -1 on a number line.
- -3 is less than -1, so we write: -3 < -1
- -1 is greater than -3, so we write: -1 > -3

10 \subseteq 8
3:ener

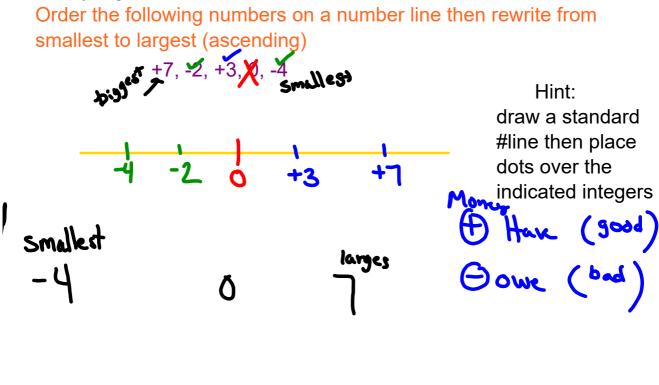
greater than

less than

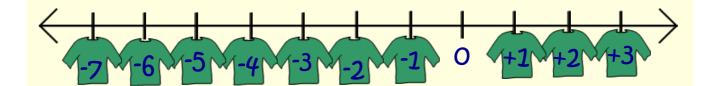


Let's try together

Order the following numbers on a number line then rewrite from



don't do See if you can hang the integers below in their correct position on the integer line.



Remove to reveal the correct answer

Ordering Integers

Are you are able to put the following set of integers in order from least to greatest?

Use the blanks provided to display your answer.

I think money (who owes the most?)

Move this box to reveal the correct order.

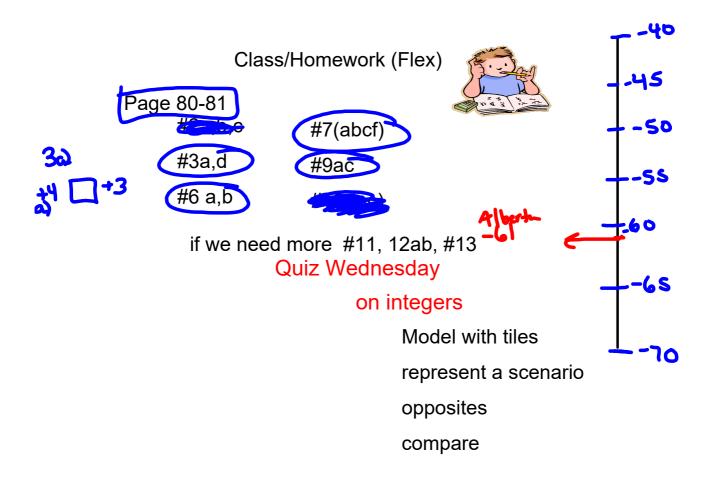
Do we need another?

+9 -2

Now put their numbers in order from greatest to least. (Decending)

+3 3 +10, +9, +8, +4, +3, -2, -8

+10 +4



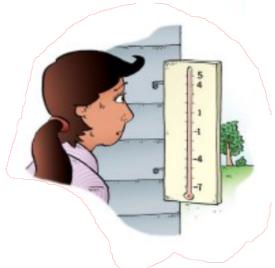
Practice

1. Copy each number line. Fill in the missing integers.





- 2. Six temperature markings are shown on the thermometer.
 - a) Which temperatures are greater than 0°C?
 - b) Which temperatures are less than 0°C?
 - c) Which temperatures are opposite integers? How do you know?



3. Which integer is greater? How did you find out?
 a) +4, +3
 b) +4, -3
 c) -4, +3
 d) -4, -3



a)
$$+4$$
, $+3$

b)
$$+4, -3$$

c)
$$-4$$
, $+3$

d)
$$-4$$
, -3

4. Mark each set of integers on a number line.

Use the number line to order the integers from least to greatest.

a)
$$+5$$
, $+13$, $+1$

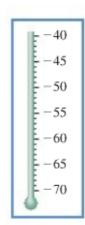
a)
$$+5$$
, $+13$, $+1$ b) -3 , -5 , -4 c) $+4$, -2 , $+3$

- 5. Use a number line. Order the integers in each set from greatest to least.

 - a) +4, +1, +8 b) -7, -5, -3 c) 0, +4, -4

- **6**. This table shows the coldest temperatures ever recorded in 6 provinces and territories.
 - a) Draw a thermometer like the one shown.
 Mark each temperature on it.

Province/ Territory	Coldest Temperature (°C)	
Alberta	-61	
Manitoba	-53	
Nova Scotia	-47	
Nunavut	-64	
Ontario	-58	
Quebec	-54	





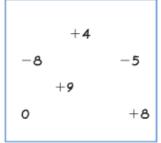
Dog Sledding in Nunavut

b) Order the temperatures in part a from least to greatest. How can you use your thermometer to do this?

7. Copy and complete by placing <, >, or = between the integers. Then, use a number line to verify your answer.



- 8. Look at the integers in the box.
 - a) Which integers are:
 - i) greater than 0?
 - ii) between -3 and +3?
 - iii) greater than -10 and less than -5?
 - iv) less than +1?
 - **b)** What other questions can you ask about these integers? Write down your questions and answer them.



9. Order the integers in each set from least to greatest.

a)
$$+5$$
, -5 , $+4$, $+2$, -2

d)
$$+1$$
, -1 , $+2$, -2 , $+3$

10. Order the integers in each set from greatest to least.

c)
$$0, +1, +2, -1, -2$$

d)
$$+14$$
, -25 , -30 , $+3$, -10

11. On January 16, 2008, these temperatures were recorded in Canada.

Place	Temperature	Place	Temperature
Lethbridge, AB	−16°C	Iqaluit, NU	−29°C
La Ronge, SK	–27°C	Dawson City, YT	–26°C
Hay River, NWT	−29°C	Prince George, BC	–6°C
Campbell River, BC	0°C	Ste. Rose du Lac, MB	−17°C

Which place was the warmest? The coldest? How did you find out?

- **12.** a) Which of these integers are greater than -6? How do you know? -3, +2, -7, -5
 - b) Which of these integers are less than -3? How do you know? +2, -11, +3, -2, -4

13. You know that 8 is greater than 3. Explain why -8 is less than -3.