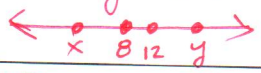
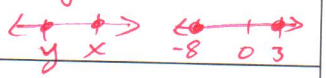
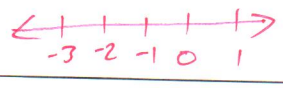
EXPLORING INTEGERS 1

Name: Key Date: _____ Period: _____

SECTION 1.2 LESS THAN AND GREATER THAN

VOCABULARY

DEFINITION	EXAMPLE
Less than: x is less than y if x is to the left of y on a number line	x < y 8 < 12 
Greater than: x is greater than y if x is to the right of y on a number line	x > y 3 > -8 
Characteristics of a number line: numbers go from smaller to larger left to right, horizontal or vertical line with an origin at 0	

Big Idea: How do we compare and order integers?

Based on the points x and y shown on the number line below, is x less than y, greater than y, or equal to y? Explain.

x is greater than y because it is to the right of y on the number line.

EXAMPLE 1

For each pair of integers below, determine which one is greater and which one is less. Express your answer as an inequality of the form x < y, or x > y, where x and y are the given integers.

a. 3 < 7

b. -2 < 9

c. -1 > -5

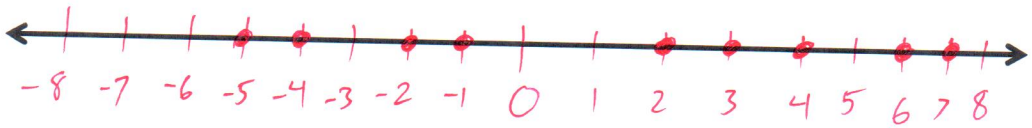
d. 4 > -4

EXAMPLE 2

Put the following integers in order from least to greatest:

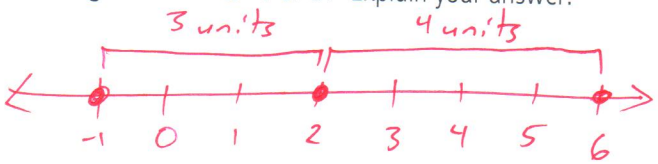
2 , -2 , 7 , -1 , -4 , -5 , 4 , 6 , 3

Use the number line to justify your answer. -5, -4, -2, -1, 2, 3, 4, 6, 7



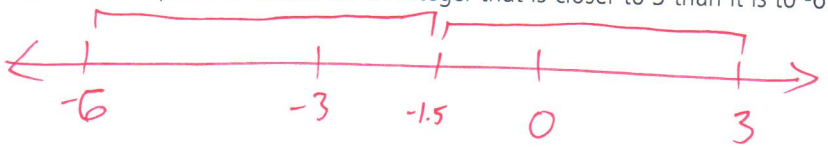
PRACTICE EXERCISES

1. Is the integer 2 closer to -1 or 6? Explain your answer.



2 is closer to 3 because the distance between them is less.

2. What are all the possible values for an integer that is closer to 3 than it is to -6?



any integer greater than -1.5: -1, 0, 1, 2, 3, ...

SUMMARY (What I learned today)