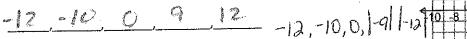
Knowledge	and	Understand	ding
Knowledge	anu	Ollucistani	amg

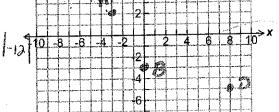
1. What does the absolute value of a number tell you about the number? Hon far (the distance

2. Describe how to use a number line to order integers. As the number line goes to the right the number increases. As the number line goes to the left the number decreases.

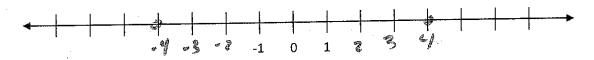
Proficiency of Skills

- 5. Order from least to greatest: -10, 0, |-12|, -12, |-9|



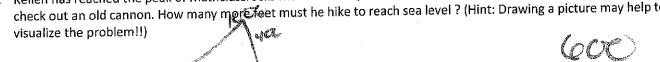


- 6. Plot and label the following points on the coordinate plane → A (-3, 2); B (0,-3); C (-2, -10); D (8,-5)
- 7. Finish labeling the number line below. Plot a point on 4 and its opposite.



Application

8. Kellen has reached the peak of Mathclassrocks Mountain at 1,000 feet above sea level. He hikes down 400 feet to check out an old cannon. How many more feet must he hike to reach sea level ? (Hint: Drawing a picture may help to

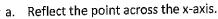


The table below shows today's temperature for 5 cities in Alaska.

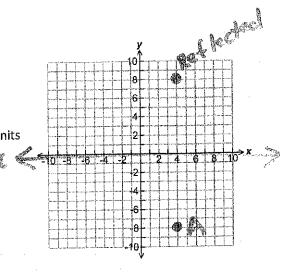
City	McKinley Park	Bethel	Fairbanks	King Salmon	-11>-13
Temperature (°Celsius)	-22	-11	-20	-13	
					-134-11

- Write an inequality statement comparing the temperature of King Salmon and Bethel:
- & King Salmon, Fairbanks, Melunder Par

10. Graph point A (4, -8) on the coordinate plane \rightarrow

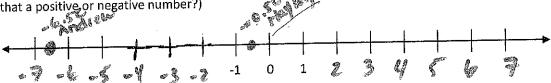


b. What is the distance between point A and the reflected point? _____ units ____ units _____ units



distance 0 to -8 is 8 1-81=8 distance 0 to 8 is 8 181=8 1-81+181= 8+8=16

11. Andrew owes \$6.50 in late fees to the library. Represent this value on the number line below. (Hint: If he **OWES**, is that a positive or negative number?)

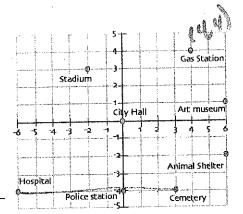


- a. Hayleigh owes \$0.50 in late fees to the library. Plot a point for this value on the number line.
- b. How much more does Andrew owe than Hayleigh?

Use the map below for questions 12 - 14.

blocks

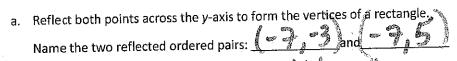
12. Name the ordered pair that represents the location of the gas station.

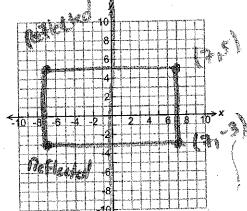


13. How many blocks apart are the hospital and the cemetery?

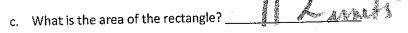
14. Name the building that is located in quadrant 3.

15. Graph (7,-3) and (7, 5) on the coordinate plane to the right.





b. What is the perimeter of the rectangle?





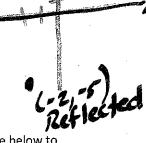
16. If you reflected the ordered pair (-2, 5) across the x-axis, what would be the coordinates of the reflection

- A. (-2, -5)
- B. (2, 5)

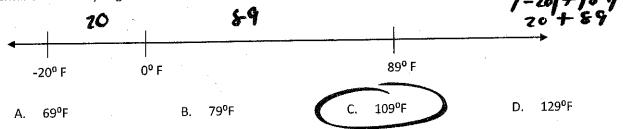
- C. (2, -5)
- D. (-2, 5)

17. Which statement below is NOT true?

- A. -3 < -1 **✓**
- B. -2 ≥ -5 **✓**
- -4 ≤ -14 **×**
 - D. -3 < 4 **✓**



18. It is 89 degrees above zero in Miami, It is 20 degrees below zero in Anchorage. Use the number line below to determine how many degrees warmer it is in Miami than in Anchorage.



19. A Bolivian monkey is jumping around on a number line. He starts at -3 and jumps 8 units to the right. Where is he now on the number line?



Performance Task

20. A newly developed neighborhood has dedicated a portion of their land to be used as a children's playground. The neighborhood would like to build a fence around a rectangular <u>area of 100 square yards</u> for a dog run. The coordinate planes below each represent the dedicated land. Each square on the grid represents one square yard. <u>Each yard of fencing costs \$12</u>. Develop <u>two</u> plans for the neighborhood to choose from.

Label the coordinates of the vertices and **determine the price** of the fencing for each plan (based on the perimeter). Then write a letter to the neighborhood explaining which design you recommend and why.

