	DV Math 6 - Unit 7: Rationa	l Explorations	Name:	
End	d of Unit Test		Class Period: 1 2 3 4	Date:
1)	What does the absolute value of a	number tell you	about the number?	1)
	 a) Absolute value gives the distant b) Absolute value always gives the c) Absolute value gives the distant d) Absolute value gives the distant 	e opposite of a r	number.	
2)	How could you use a number line t	o compare and	d order rational numbers?	2)
	 a) The farther to the left a number the right a number is, the smalle b) The farther to the left a number the right a number is, the greated c) Numbers closer to zero are always d) You cannot use a number line to 	er the number. is, the smaller the rumber. ays greater than	ne number. The farther to	
3)	Evaluate -15 + 15			3)
	a) -15 b) 0	c) 15	d) 30	
4)	Evaluate: - 2			4)
	a) -4 b) -2	c) 0	d) 2	
5)	Which choice shows the numbers i	n order from lec	ust to greatest?	5)
	a) -10, 0, -12 , -9	b) -10, 0,	-9 , -12	
	c) -12 , -10, -9 , 0	d) -12 , -	-9 , 0, -10	
6)	Which of the following is NOT an in-	teger?		6)
	a) 3 b) 14.8	c) 19	d) 0	
7)	Which integer represents, "Mariah	won 75 dollars i	n a raffle?"	7)
	a) -75 b) 0	c) 75	d) 175	
8)	Which integer represents, "Carolin	e went diving 1:	20 feet underwater?"	8)
	a) -120 b) -20	c) -120	d) 120	

9) The table below shows today's temperature for 5 cities. Which statement is TRUE?	9)
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City	McKinley Park	Bethel	Fairbanks	McGrath	King Salmon
Temperature (°Celsius)	-22	-11	-20	-19	-13

- a) Bethel is colder than McKinley Park.
- c) King Salmon is colder than Bethel.

b) Fairbanks is the coldest city.

d) McKinley Park is the warmest city.

10) Which statement below is NOT true?

10) _____

- a) -1 > -18 b) -2 > -4 c) -4 < 1 d) -13 > -4
- 11) 45 Advanced Math 6 students reached the peak of Mathrocks Mountain at 5,300 feet above sea level. Then, they hiked down 4,000 feet to check out some ancient ruins. How many more feet must they hike to reach sea level?
- 11) ____

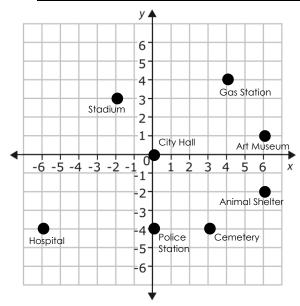
12) _____

13) _____

14)

- a) -1,300 ft
- b) 1,300 ft
- c) 1,700 ft
- d) 9,300 ft

Use the map to answer questions 12-15. Each unit represents one block.



- 12) Which ordered pair represents the location of the police station?
 - a) (0, -4) b) (-4, 0) c) (0, 4) d) (1, -4)
- 13) How many blocks apart are the cemetery and the hospital?
 - a) -9
- b) 6
- d) 10
- 14) Which building is located in quadrant IV?

- a) hospital
- b) cemetery

c) 9

- c) stadium
- d) police station
- 15) Which building is located at the origin?
- 15)

- a) city hall
- b) art museum
- c) gas station
- d) police station

Use the number line for questions 16-17.



16) Which point is represented by -7?

16) _

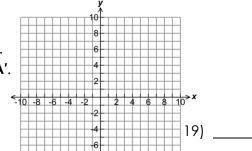
- a) A
- b) B
- c) C
- d) E
- 17) Which integer represents the **opposite** of Point E in the number line?

17)

- a) -3
- b) -2
- c) 2
- d) 7

Use the coordinate plane for questions 18-19.

- **18a)** Graph and Label point A (-3, 2) on the coordinate plane.
- **18b)** Reflect the point across the y-axis, and label that point A'.



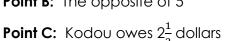
- 19) What is the distance between A and A'?
 - a) -6
- b) 2
- c) 5
- d) 6

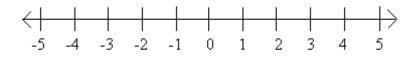
20) The ordered pairs (8, 2), (-4, 2) and (-4, 5) are 3 vertices of a rectangle. Which ordered pair is the 4th vertex?

20)

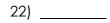
- a) (8,-4) b) (5,8) c) (8,5) d) (2,5)
- 21) Use the number line below to plot the following points:
 - Point A: Ariana found \$3.50

Point B: The opposite of 5





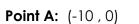
22) If you reflect the point (-10, -5) across the x-axis, what would be the coordinates of the reflection?

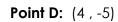


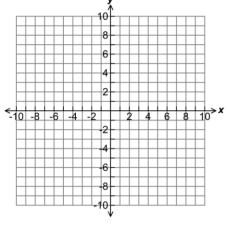
- a) (10,-5) b) (10,5) c) (-10,5) d) (-10,-5)
- 23) Which statement best describes |-24|?



- a) the distance from -24 to 24 on a number line
- b) the distance from -2 to 4 on a number line
- c) the distance from 0 to -24 on a number line
- d) the distance from -2 to -4 on a number line
- **24)** Graph and label the following points on the coordinate plane.





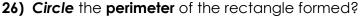


Use the coordinate plane for questions 25-27.

25) Graph (5, -3) and label it **K**.

Graph (5, 5) and label it **A**.

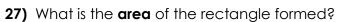
Reflect both points across the y-axis and label them T & Z. Connect the points to create a polygon.



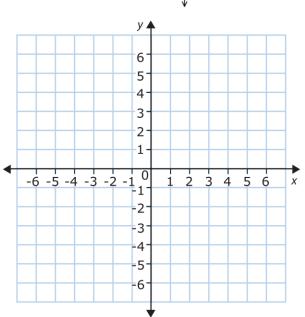
a) 18 units

- b) 30 units
- c) 36 units

d) 80 units



- a) 18 units²
- b) 30 units²
- d) 36 units²
- d) 80 units²

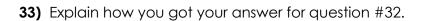


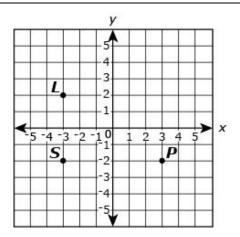
CONSTRUCTED RESPONSE

The coordinate grid below shows the locations of three different stores. Jamie's house is located at the origin. Use this coordinate plane to answer questions #28-33.

	28)	What are the	coordinates of Point S?	Point P?	
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29)	Describe	the	relationship	between	these	two	points
		_				_	





THROWBACK/BONUS:

1) In a recent poll, 40 out of every 50 students said math is their favorite subject! At this rate, how many of the 425 6th-graders say math is their favorite subject?

2) Simplify the expression: 3(2x + 4) + 6x + 3