Unit 1 Math Test Review

1. Draw a dot plot f			
	or the following s	spelling test scores:	
100, 100, 95, 90, 92	, 93, 93, 90, 94, 9	0, 97	
Title of the Graph: _			
		(unit)	
Use your dot plot to	o find the followir	ng landmarks.	
Maximum:	Minimum:	Range:	
Mode(s):	Mean:		
2. Students in Mr. V	Villiams' Saturday	y art class are 15, 19, 47, 14,	15, 19, and 11 years old.
a. Find the median:		and the mean:	
b. Which better rep	resents students'	ages? Explain	

- 3. a. Which questions below are statistical? Circle ALL of the answers.
 - A. What is the average low temperature for the month of October in Saline?
 - B. How many pets do the sixth graders in your school have?
 - C. What shoe size are you?
 - D. How many countries are there in South America?
 - b. Explain how you know one of the questions you circled is statistical:

Plot the following points. 4.

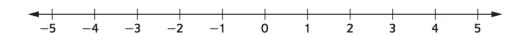
A:
$$-1\frac{3}{4}$$
 B: $4\frac{1}{6}$ C: 0 D: $\frac{4}{5}$ E: -3 F: $3\frac{2}{3}$ G: $-\frac{2}{3}$

B:
$$4\frac{1}{6}$$

D:
$$\frac{4}{5}$$

$$F: 3\frac{2}{3}$$

G:
$$-\frac{2}{3}$$



5. Plot and label the following points on the coordinate grid.

A: (5,2)

B: (-1½, 3½)

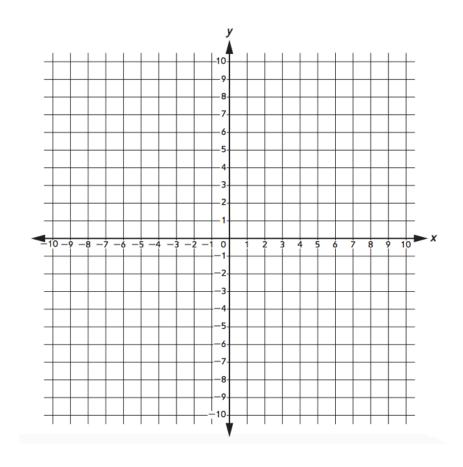
C: (-2,-2)

D: $(-4\frac{1}{2}, -3)$

Plot a point in the quadrant that is not already plotted.

Label it E.

Write the coordinates for your point. _____, ____



For each statement, circle TRUE or FALSE. If you wish, draw a number line to help you.

6. Every rational number is a counting number.

TRUE

FALSE

7. A positive number is always greater than a negative number.

TRUE

FALSE

8. -4 is greater than -5.

TRUE

FALSE

9. There is a rational number between ¼ and ¾.

TRUE

FALSE

10. a. Order these fractions from least to great	test: ⁸ / ₉ ,	⁶ / ₁₂ ,	4/3,	¹ / ₅ ,	6/8				
b. Stevie says that there are no numbers be would you tell him?	tween ¹ / ₃ a	and ¹ /4	. Why	might	he th	ink t	hat	and	what
11. Frankie gave his parents this graph based on the amount of time he was spending doing chores. Based on this graph, they thought he had doubled his time doing chores.		4:00 - 3:55 - 3:50 - 3:45 - 3:40 -		Time Sp	pent De	oing C	Chore	es	
What do you think? Use the graph to defend your argument.	Hours	3:35 3:30							

3:25 3:20 3:15 3:10 3:05 3:00

2

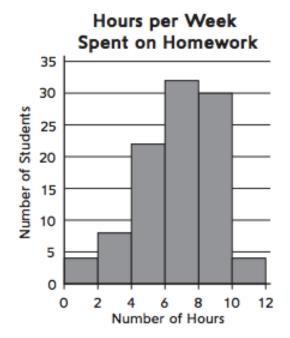
3

7

5

6 Week

12. Use the histogram. a. Write one statistical question you could answer the information in the graph.	· based on
b. List one statistical question you cannot answer the graph.	based on

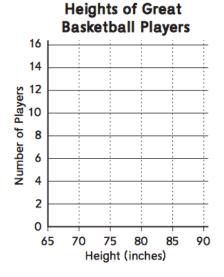


c. Draw a line approximately where you think the mean is on this graph.

13. a. The table below shows the heights of great basketball players in order from tallest to shortest.

Use the data to make a histogram.

Не	Heights of Great Basketball Players in Inches												
89	88	86	86	85	85	85	84	84	84	82			
82	82	82	81	81	81	81	80	80	80	80			
79	79	78	78	78	75	75	73	70	70	69			



b. What is the title of the graph?	
. .	

c. What is the unit on the x axis?

d. What's the unit on the y axis?

For the following questions, record whether you can determine the answer based on the graph. If you can, write the answer.

e. How many players are included in the graph? _____

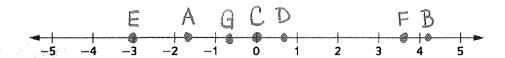
f. How many heights are below 75 inches?

g. How many heights are exactly 81 inches? _____

Unit 1 Math Test Review	
Name: #:#:	
Parent Signature (test alert):	
Test is on:	
1. Draw a dot plot for the following spelling test scores:	
100, 100, 95, 90, 92, 93, 93, 90, 94, 90, 97	
Title of the Graph: Spelling Test Scores	
89 90 91 92 93 94 95 96 97 98 99 100 101 102 103 Score (percents) (unit)	.*
Use your dot plot to find the following landmarks.	1
Maximum: 100 Minimum: 90 Range: 10	
Mode(s): 90 Mean: 94	
2. Students in Mr. Williams' Saturday art class are 15, 19, 47, 14, 15, 19, and 11 years old.	
a. Find the median: 15 and the mean: 20	
b. Which better represents students' ages? Explain. The median, 15, better represents The outlier, 47, raises the mean.	
 3. a. Which questions below are statistical? Circle ALL of the answers. A. What is the average low temperature for the month of October in Saline? B. How many pets do the sixth graders in your school have? C. What shoe size are you? D. How many countries are there in South America? 	
b. Explain how you know one of the questions you circled is statistical: To decide how many pets the average of grader has I would have to collect data! *Non-statistical questions ask one person a question or has one specific answer.	÷

- Plot the following points. 4.
 - A: $-1\frac{3}{4}$
- B: $4\frac{1}{6}$

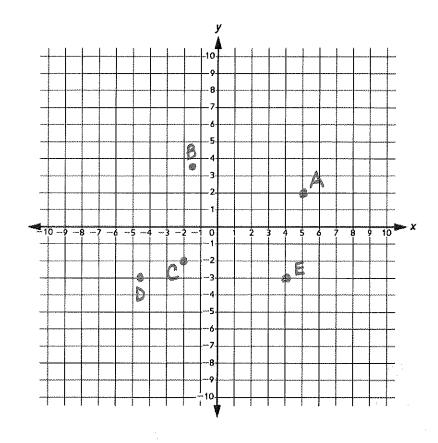
- C: 0 D: $\frac{4}{5}$ E: -3 F: $3\frac{2}{3}$ G: $-\frac{2}{3}$



- 5. Plot and label the following points on the coordinate grid.
- A: (5,2)
- B: (-1½, 3½)
- C: (-2,-2)
- D: $(-4\frac{1}{2}, -3)$
- Plot a point in the quadrant that is not already plotted.

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Write the coordinates for your



For each statement, circle TRUE or FALSE. If you wish, draw a number line to help you.

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9. There is a rational number between ¼ and ¾.

TRUE

FALSE

10. a. Order th	ese fract	tions fr	om leas	to greatest:	⁸ / ₉ ,	/ 2 6/ _{12,}	4/3, 1	/ 5,	6/8
5, 12	<u> </u>	B a	tage variances						

b. Stevie says that there are no numbers between $\frac{1}{3}$ and $\frac{1}{4}$. Why might he think that and what would you tell him?

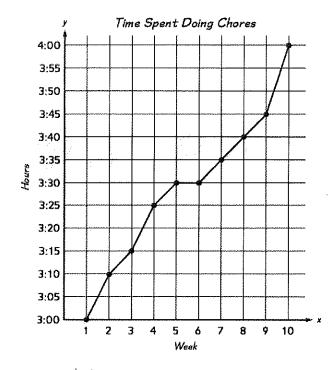
Stevie might think that because there are no whole numbers between 344 (the denominators). If he finds a Common denominator he would see that $\frac{7}{24}$ is between $\frac{7}{4}$ is $\frac{1}{24}$.

11. Frankie gave his parents this graph based on the amount of time he was spending doing chores.

Based on this graph, they thought he had doubled his time doing chores.

What do you think? Use the graph to defend your argument.

Tidon't believe he doubted his time on chores! In 9 weaks (horizontal axis) the time he spent on chores increased from 3 hows to 4 hows. If

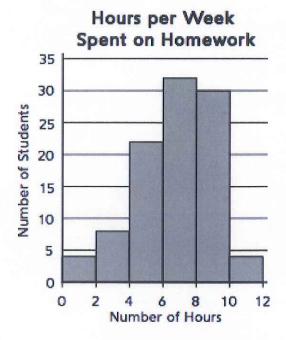


he had doubled his time he would have sport 6 hours on chores. The graph is so steep because the Vertical axis increases by 5 minute increments.

12. Use the histogram.

a. Write one statistical question you could answer based on the information in the graph.

b. List one statistical question you cannot answer based on the graph.

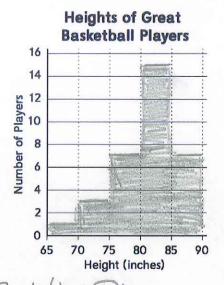


c. Draw a line approximately where you think the mean is on this graph.

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b. What is the title of the graph?

c. What is the unit on the x axis?

d. What's the unit on the y axis?

For the following questions, record whether you can determine the answer based on the graph. If you can, write the answer.

e. How many players are included in the graph?

f. How many heights are below 75 inches?

g. How many heights are exactly 81 inches?