

## American Math 6<sup>th</sup> Grade HW 14;

### Integers; Rational Numbers; Coordinate Plane

1. David has special cards. Each card has a different rational number on it. The cards are  $0.25$ ,  $\frac{4}{5}$ ,  $\frac{2}{9}$ ,  $0.48$ , and  $\frac{8}{11}$ . How many cards have a value that is greater than  $\frac{1}{2}$ ?
- A none of these      C two  
B three      D one
2. Which set of rational numbers is correctly ordered from least to greatest?
- A  $-0.68, -0.66, -0.67, -0.65$   
B  $-0.65, -0.67, -0.68, -0.66$   
C  $-0.68, -0.67, -0.66, -0.65$   
D  $-0.65, -0.66, -0.67, -0.68$
3. Write the numbers  $-2.1$ ,  $-1\frac{5}{6}$ ,  $-1\frac{2}{3}$ , and  $-2.2$  in the form  $\frac{a}{b}$ , from greatest to least.
4. The table shows the daily temperatures for a four-day period in Chicago.
- Daily Temperatures in Chicago**
- | Day       | Temperature            |
|-----------|------------------------|
| Monday    | $-2.2^{\circ}\text{C}$ |
| Tuesday   | $-3.0^{\circ}\text{C}$ |
| Wednesday | $-2.8^{\circ}\text{C}$ |
| Thursday  | $-2.4^{\circ}\text{C}$ |
- On which day or days was the temperature lower than  $-2.5^{\circ}\text{C}$ ?
- \_\_\_\_\_
5. Which statement about rational numbers is **not** correct?
- A All rational numbers are also integers.  
B Zero is a rational number.  
C All integers also rational numbers.  
D All rational numbers can be written in the form  $\frac{a}{b}$ .
6. Philip wrote the numbers  $3\frac{1}{5}$ ,  $3\frac{1}{7}$ ,  $5\frac{1}{8}$ , and  $1\frac{5}{6}$  in the form  $\frac{a}{b}$ . What is the greatest numerator that Philip wrote?
- A 11      C 22  
B 16      D 41
7. What is the absolute value of  $-10.5$ ?
- A  $-10.5$   
B 0  
C 10.5
8. Kevin compared the absolute values of  $-2\frac{1}{8}$ ,  $-2.25$ ,  $2\frac{3}{8}$ ,  $-2.29$ , and  $2\frac{4}{11}$ . Which number has the greatest absolute value?
- \_\_\_\_\_
9. Which statement is correct?
- A  $-3.5 < -2$   
B  $-2.5 < -4$   
C  $-1.5 < -2.5$

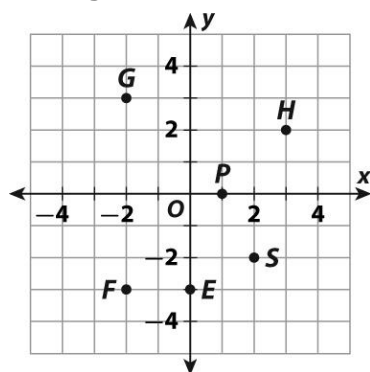
10. Trina guessed a rational number between 3 and 5 that is **not** an integer. Which is a possible number that she guessed?

A -3.7  
B 4  
C 4.7

16. Kim poured a 24-ounce container of orange juice into 5 cups. She poured the same amount of juice into each cup. Which rational number represents the amount of juice in each cup?

A  $\frac{5}{24}$   
B 5  
C  $\frac{24}{5}$

Use the above grid for 11–15.



11. Which point has the ordered pair  $(-2, 3)$ ?

A point *H*  
B point *G*  
C point *S*

12. Which ordered pair shows the location of point *F*?

A  $(-3, 2)$   
B  $(-2, -3)$   
C  $(-3, -2)$

13. Points *G* and *F* have the same *x*-coordinate. What is it?

A -4  
B -2  
C -3

14. Graph  $M(-4, -6)$ ,  $N(-6, -4)$ , and  $Q(6, -4)$ .

15. In which quadrant are *M* and *N*?