STATION I

I can write an inequality statement and verbal description.

Write an inequality statement to represent the situation below.

A Sam owes at least $12.	B You must be under 18 years old to play in the youth league.
C In order to drive you must be 16 years old.	D A commercial can last no longer than 30 seconds.
E The fire code states the maximum capacity is 138 people.	F An elevator can hold up to 865 pounds.

Write a verbal description to represent the inequality below.

G $p < 1.85$	H $10 > g$
I $200 \leq m$	J $t \geq 15$
K $k > -5$	L $r < -\frac{1}{2}$

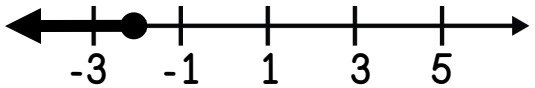
STATION 2

I can represent solutions to inequalities on number lines.

Match the inequality on the left with the correct graph on the right.

1	$b > 4.5$
2	$-5 < n$
3	$-2 \leq r$
4	$\frac{1}{2} > g$
5	$t \leq -2$
6	$k > \frac{1}{2}$
7	$d \geq 4.5$
8	$w \geq -5$

A



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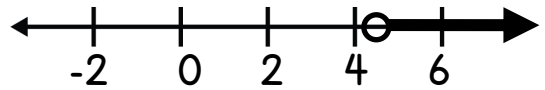

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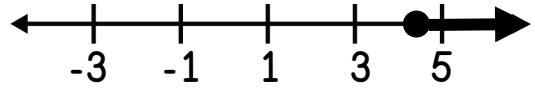

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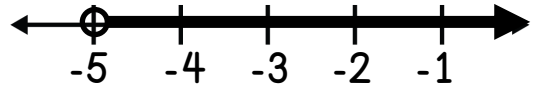

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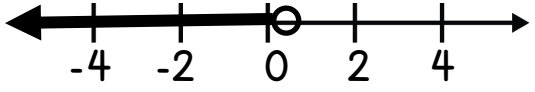

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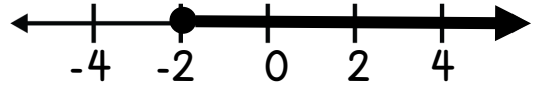
G



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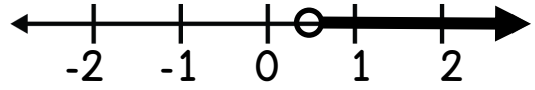


STATION 3

I can solve one-step inequalities.

Solve each of the following one-step inequalities.

A $8.2x > 49.2$

B $29.3 + x \geq 10$

C $16 > 5x$

D $200 \leq x - 165$

E $\frac{x}{3} > 11.2$

STATION 4

I can solve two-step inequalities.

Solve each of the following two-step inequalities.

A

$6.5 + 2x < -11.3$

B

$1.5x - 15 \geq -12$

C

$12 < 6 + \frac{1}{2}x$

D

$-27 \leq 3x - 15$

E

$\frac{x}{3} - 10 > -8$

STATION 5

I can solve and graph inequalities.

Solve each of the following inequalities. Then, graph the solution on your recording sheet.

A $-x > 7.5$	B $10 > \frac{x}{-2}$
C $20 - x \leq 30$	D $-\frac{2}{3}x + 6 \geq 10$

Answer the following questions.

1. How does dividing by a negative number impact the solution?

2. How is $-3x < 21$ different than $3x < -21$?

STATION 6

I can solve and graph two-step inequalities.

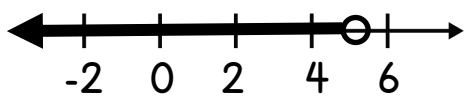
Determine whether the students below solved the inequality correctly. Correct their mistake if they have an error.

JASON

$5.6x - 10 < 18$

$5.6x < 28$

$x < 5$

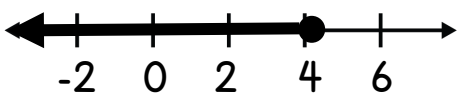


JASMINE

$-6x - 8.2 \leq 16.4$

$-6x \leq 24.6$

$x \leq 4.1$

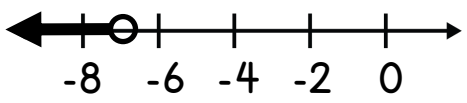


JERRY

$3x + 7 < -14$

$3x < -21$

$x < -7$

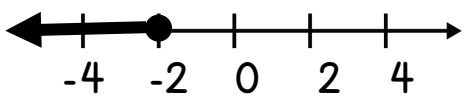


JANELLE

$-2x + 3.5 \geq 7.5$

$-2x \geq 4$

$x \leq -2$

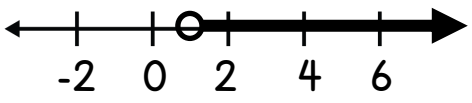


JEFFERY

$\frac{1}{2}x + 20 > 22$

$\frac{1}{2}x > 2$

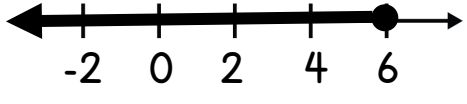
$x > 1$



JACQUELINE

$14 - x \leq 20$

$x \leq 6$



STATION 1

I can write and solve inequalities.

Write an inequality statement to represent each problem below. Then, solve the inequality. Round to the nearest tenth.

1. Brett needs to read at least 200 minutes this week. If he has already read 65 minutes, then how many minutes should he read on each of the 4 remaining days this week?

2. Raquel has a $40.00 game card that she can spend at the arcade. She has already bought a laser tag ticket for $12.00, and she wants to play $2.00 games with the leftover money on the card. How many games can she play?

3. Jeff has a savings account with $300.00 in it. Every month, he withdraws $15.00 to pay for his music subscription. What is the maximum number of months that Jeff can withdraw the money without allowing his account to drop below $140.00?

4. Natalie has $15.00 to spend at the movie theater. She buys a popcorn for $5.75, and she wants to purchase candy, which costs $2.25 each. How many boxes of candy can Natalie purchase?

STATION 8

I can write, solve, and graph inequalities.

Match each word problem to the graph that best represents its solution. Round to the nearest tenth.

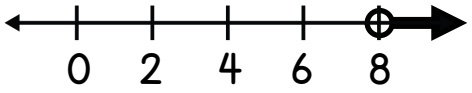
1. Hank was paid $40 to chop firewood and makes $30 per week dog walking. How many weeks does he need to walk dogs in order to earn more than $280?

2. An annual pass to the local zoo is $46.00. The daily pass is $11.50. How many times would you need to visit the zoo during the year in order to make the annual pass a better deal?

3. Mr. Parks has driven 55 miles of a 300 mile trip. If he is traveling at or below the 70 mile per hour speed limit, how much longer can Mr. Parks expect the trip to last?

4. A tennis racquet costs $43.75 and a can of tennis balls costs $3.25. How many cans of tennis balls can you buy along with a tennis racquet and be under your $60.00 budget?

A.



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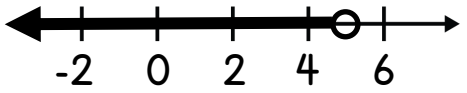

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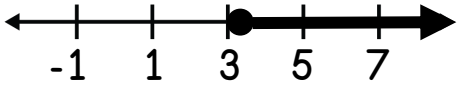

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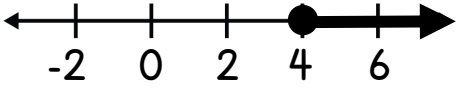


Unit: Inequalities Stations

Name _____

Date _____ Pd _____

INEQUALITIES UNIT REVIEW STATIONS

Show all your work in the appropriate box below.

STATION 1

A	B
C	D
E	F
G	H
I	J
K	L

STATION 2

1
2
3
4
5
6
7
8

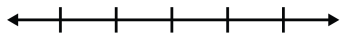
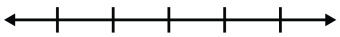
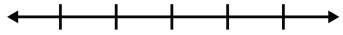
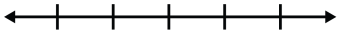
STATION 3

A	B
C	D
E	

STATION 4

A	B
C	D
E	

STATION 5

A 	B 
C 	D 

1. _____
2. _____

STATION 6

JASON	JASMINE	JERRY
JANELLE	JEFFERY	JACQUELINE

STATION 7

1	2
3	4

STATION 8

1	2
3	4

Unit: Inequalities Stations

Name _____

Date _____ Pd _____

INEQUALITIES UNIT REVIEW STATIONS

Show all your work in the appropriate box below.

STATION 1

A $x \geq 12$	B $x < 18$
C $x \geq 16$	D $x \leq 30$
E $x \leq 138$	F $x \leq 865$
G answers vary	H answers vary
I answers vary	J answers vary
K answers vary	L answers vary

STATION 2

1. B
2. D
3. G
4. E
5. A
6. H
7. C
8. F

STATION 3

A $x > 6$	B $x \geq -19.3$
C $x < 3.2$	D $x \geq 365$
E $x > 33.6$	

STATION 4

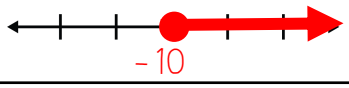
A $x < -8.9$	B $x \geq 2$
C $x > 12$	D $x \geq -4$
E $x > 6$	

STATION 5

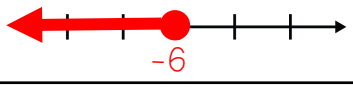
A $x < -7.5$

B $x > -20$

C $x \geq -10$



D $x \leq -6$



1. When you divide by a negative number, you have to switch the inequality sign.
2. In the first problem, you are dividing by a negative. In the second, you are dividing by a positive.

STATION 6

JASON	JASMINE	JERRY
correct	$x \geq -4.1$ Jasmine forgot to change the sign when dividing by a negative number.	correct
JANELLE	**JEFFERY**	**JACQUELINE**
correct	$x > 4$ Jeffery multiplied by $\frac{1}{2}$ instead of dividing by $\frac{1}{2}$.	$x \geq -6$ Jacqueline forgot to copy the negative sign from line 1 to line 2.

STATION 7

1 $65 + 4x \geq 200$ $x \geq 33.75$ min	2 $12 + 2x \leq 40$ $x \leq 14$ games
3 $300 - 15x \geq 140$ $x \leq 10$ months	4 $5.75 + 2.25x \leq 15$ $x \leq 4$ candy boxes

STATION 8

1 A	2 D
3 C	4 B