STATION 1

Solve the following one-step equations for x.

A

$$12x = 114$$

B

$$x + 5.8 = 17.1$$

C

$$x - 19 = 34$$

D

$$\frac{1}{2}x = 126$$

STATION 2

Draw a picture, then write an equation to represent the situations below. Solve for the missing information.

1. The area of a wall is 264 feet^2. If the length of the wall is 22 feet, what is the height of the wall?

2. A straight angle is made of two angles with a sum of 180°. If one of the angles is 104.6°, what is the measure of the other angle?

STATION 3

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

RACHEL

$\frac{x}{7} = 12.5$

$x = 87.5$

LILIANA

$3.2x = 25.6$

$x = 0.8$

TRE

$\frac{1}{2} + x = 2\frac{1}{4}$

$x = 2\frac{3}{4}$

ROSS

$44 = x - 16$

$x = 60$

MAHATHI

$x + 38 = 54$

$x = 16$

KASSANDRA

$\frac{x}{4} = 15.2$

$x = 3.8$

STATION 4

Solve the following one-step inequalities for x.

A

$16x < 240$

B

$x + 15 \geq 25$

C

$x - 2.5 \leq 15.1$

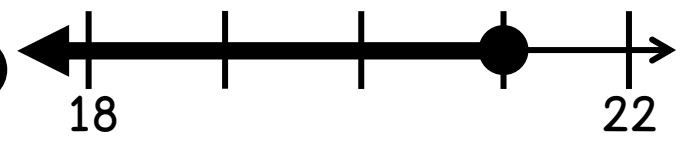
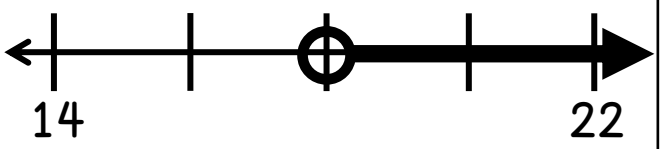
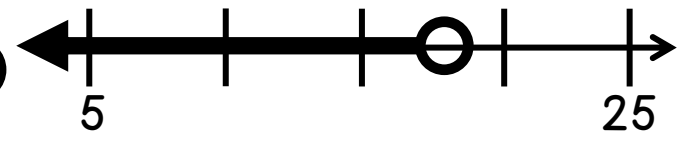
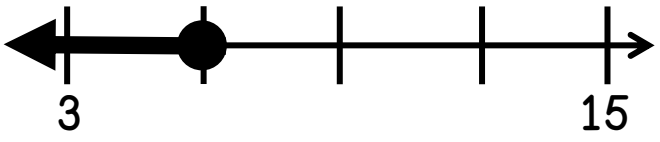
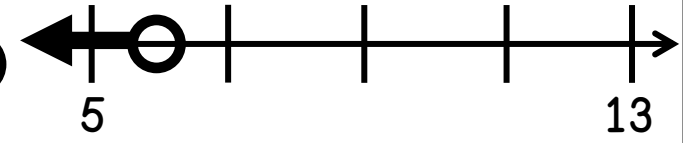
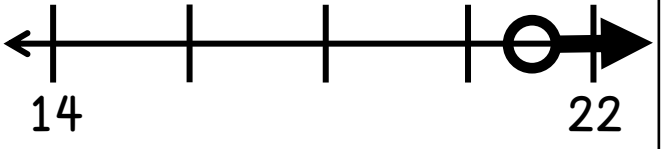
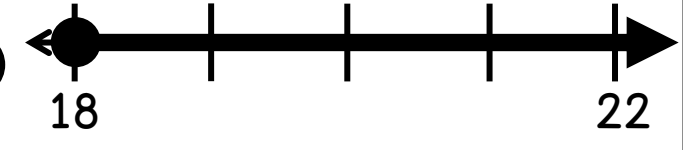
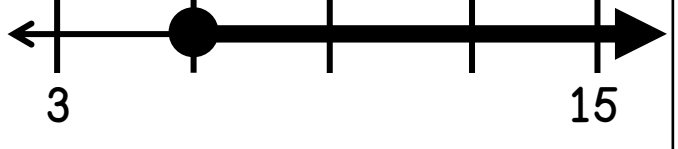
D

$\frac{x}{4} > 64$

STATION 5

Match the inequality statement above to the number line below.

1 $x > 21$	4 $21 \geq x$
2 $18 \leq x$	5 $x > 18$
3 $x < 6$	6 $6 \geq x$

A 	E 
B 	F 
C 	G 
D 	H 

STATION 6

Draw a picture then write an inequality to represent the situations below. Solve for the missing information.

1. A vegetable garden needs a minimum of 150 square feet. If the width of the garden 6 feet, what must the length measure?

2. An acute angle is divided into two equal parts. Each part measures less than 37°. What is the measure of the original angle?

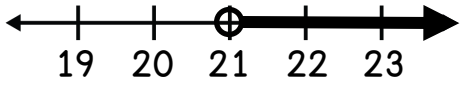
STATION 1

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

JEROME

$x - 33 > 54$

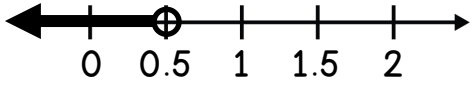
$x > 21$



ISRAEL

$\frac{x}{2} < 2.5$

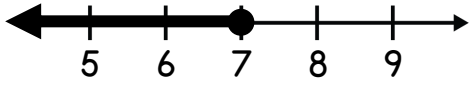
$x < 0.5$



ISLA

$14.5 \geq x + 7.5$

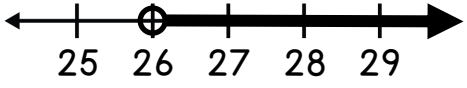
$x \leq 7$



ANDREW

$x - 8.2 > 17.8$

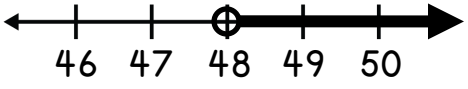
$x > 26$



AMELIA

$\frac{x}{4} \geq 12$

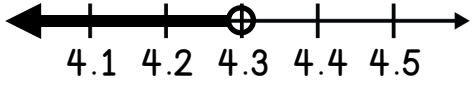
$x \geq 48$



CAITLIN

$3x < 12.9$

$x < 4.3$



STATION 8

Label the independent and dependent variables in each of the situations below.

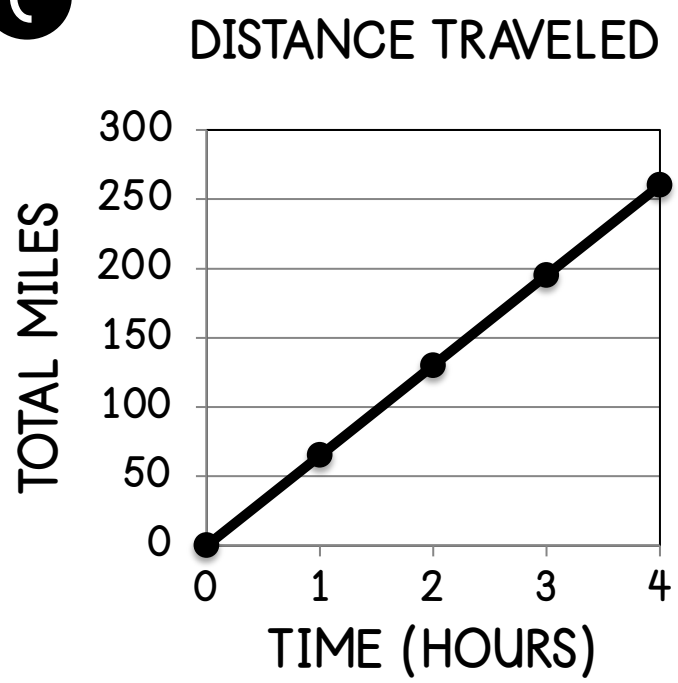
A

Jason rides his bike 8 miles per hour. This can be represented by the equation $m=8h$.

B

DAYS	1	2	3	4
TOTAL RAINFALL (INCHES)	2	4	6	8

C



Unit: Equations and Inequalities Stations

Name Answer Key

Date _____ Pd _____

EQUATIONS AND INEQUALITITES UNIT REVIEW

Show all your work in the appropriate box below.

STATION 1

A	B
C	D

STATION 2

1
2

STATION 3

RACHEL	LILIANA	TRE
ROSS	MAHATHI	KASSANDRA

STATION 4

A	B
C	D

Show all your work in the appropriate box below.

STATION 5

1	4
2	5
3	6

STATION 6

1

2

STATION 7

JEROME	ISRAEL	ISLA
ANDREW	AMELIA	CAITLIN

STATION 8

A INDEPENDENT _____

DEPENDENT _____

B INDEPENDENT _____

DEPENDENT _____

C INDEPENDENT _____

DEPENDENT _____

Unit: Equations and Inequalities Stations

Name Answer Key

Date _____ Pd _____

EQUATIONS AND INEQUALITITES UNIT REVIEW

Show all your work in the appropriate box below.

STATION 1

A $x = 9.5$	**B** $x = 11.3$
C $x = 53$	**D** $x = 252$

STATION 2

1 12 feet

2 75.4°

STATION 3

RACHEL	LILIANA	TRE
correct	$x = 8$ Liliana put the decimal point in the wrong place.	$x = 1\frac{3}{4}$ Tre should have added $\frac{1}{2}$ instead of subtracting $\frac{1}{2}$.
ROSS	**MAHATHI**	**KASSANDRA**
correct	correct	$x = 60.8$ Kassandra should have multiplied by 4 instead of dividing by 4.

STATION 4

A $x < 15$	**B** $x \geq 10$
C $x \leq 17.6$	**D** $x > 256$

Show all your work in the appropriate box below.

STATION 5

1 G	4 A
2 D	5 E
3 C	6 F

STATION 6

1 $x \geq 25$

2 $x < 74°$

STATION 7

JEROME $x > 87$ Jerome should have added 33 instead of subtracting 33.	**ISRAEL** $x < 5$ Israel should have multiplied by 2 instead of subtracting by 2.	**ISLA** correct
ANDREW correct	**AMELIA** The inequality is correct, but the graph should have a closed circle.	**CAITLIN** correct

STATION 8

A
INDEPENDENT number of hours
DEPENDENT total miles traveled

B
INDEPENDENT number of days
DEPENDENT total rainfall in inches

C
INDEPENDENT number of hours
DEPENDENT total miles traveled