



Unit 7.2, Lesson 7: Equations of Proportional Relationships

Name _____

1.a Use the information provided to fill in the missing information.

Story Lucia earns \$12 per hour.	Table <table border="1"><thead><tr><th>Hours (x)</th><th>Pay (y)</th></tr></thead><tbody><tr><td>0</td><td></td></tr><tr><td>1</td><td></td></tr><tr><td></td><td>30</td></tr><tr><td></td><td></td></tr></tbody></table>	Hours (x)	Pay (y)	0		1			30			Is it proportional? Explain how you know.
Hours (x)	Pay (y)											
0												
1												
	30											
Equation												



Unit 7.2, Lesson 7: Equations of Proportional Relationships

Name _____

1.b Use the information provided to fill in the missing information.

Story The recipe calls for 1 banana for every 2 smoothies.	Table <table border="1"><thead><tr><th>Smoothies (x)</th><th>Bananas (y)</th></tr></thead><tbody><tr><td>0</td><td>0</td></tr><tr><td>1</td><td></td></tr><tr><td></td><td>2.5</td></tr><tr><td></td><td></td></tr></tbody></table>	Smoothies (x)	Bananas (y)	0	0	1			2.5			Is it proportional? Explain how you know.
Smoothies (x)	Bananas (y)											
0	0											
1												
	2.5											
Equation												



Unit 7.2, Lesson 7: Equations of Proportional Relationships

Name _____

2.a Use the information provided to fill in the missing information.

Story The cell phone costs \$500, plus \$35 per month for the plan.	Table <table border="1"><thead><tr><th>Months (x)</th><th>Total Cost (y)</th></tr></thead><tbody><tr><td>0</td><td></td></tr><tr><td>1</td><td></td></tr><tr><td></td><td>605</td></tr><tr><td></td><td></td></tr></tbody></table>	Months (x)	Total Cost (y)	0		1			605			Is it proportional? Explain how you know.
Months (x)	Total Cost (y)											
0												
1												
	605											
Equation												



Unit 7.2, Lesson 7: Equations of Proportional Relationships

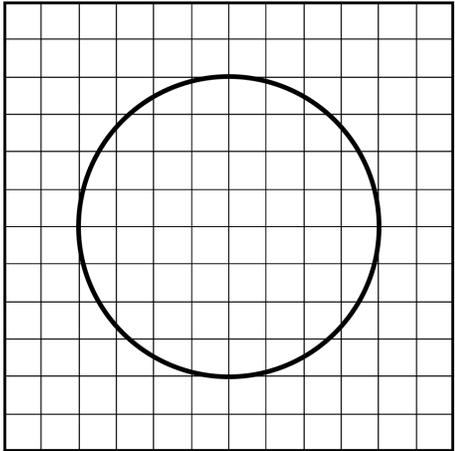
Name _____

2.b Use the information provided to fill in the missing information.

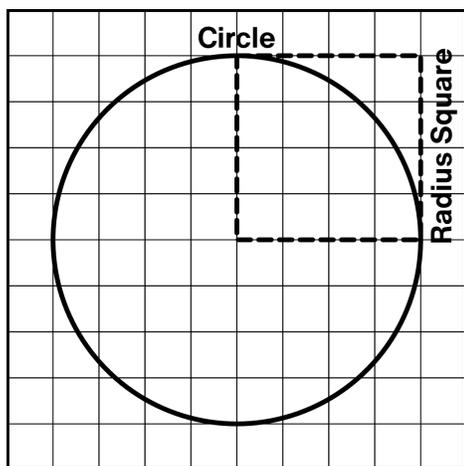
Story The area of a square is the side length multiplied by itself.	Table <table border="1"><thead><tr><th>Side Length (x)</th><th>Area (y)</th></tr></thead><tbody><tr><td>0</td><td></td></tr><tr><td>1</td><td></td></tr><tr><td></td><td>100</td></tr><tr><td></td><td></td></tr></tbody></table>	Side Length (x)	Area (y)	0		1			100			Is it proportional? Explain how you know.
Side Length (x)	Area (y)											
0												
1												
	100											
Equation												

Activity 1: Estimating Circle Area

- Estimate the number of unit squares it would take to cover Ayaan's circle (shown below). Record your own estimate and strategy. Then, find a person who got a different estimate or used a different strategy, and record their estimate and strategy.

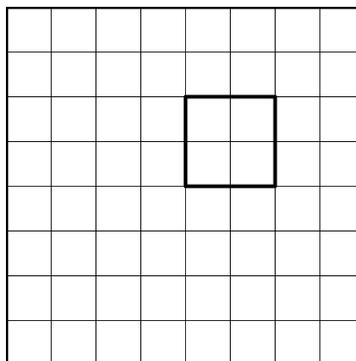
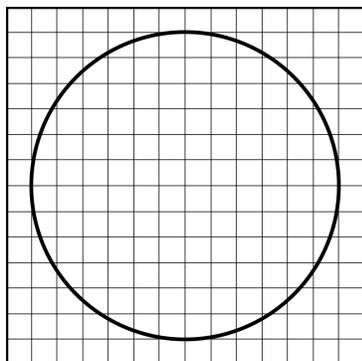
	<p>My estimate:</p> <p>My strategy:</p>	<p>My partner's estimate:</p> <p>My partner's strategy:</p>
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Each circle has a corresponding radius square. Here is the radius square for this circle.



- Why do you think we call this a radius square?
- For this circle, one radius square has an area of 16 square units. About how many of these radius squares do you think it would take to cover just the circle?

- Draw a radius square for this circle.
- Draw a circle for this radius square.

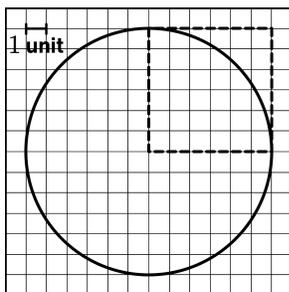


Activity 3: Circle Area

- After watching the animation, do you think the formula $A = 3 \cdot r^2$ will give an overestimate or an underestimate for the area of a circle? Use the animation to help support your thinking.
- Write a formula to calculate the **exact** area of a circle.

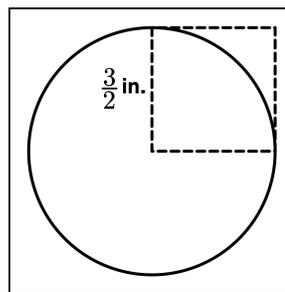
Calculate the exact area of each circle. (These are not drawn to scale.)

3.1



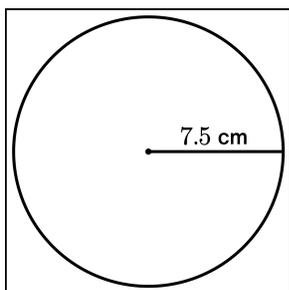
Area:

3.2



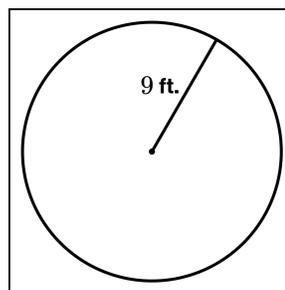
Area:

3.3



Area:

3.4



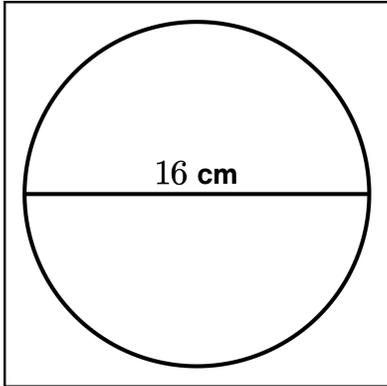
Area:

Are You Ready for More?

Is there a proportional relationship between the radius of a circle and its area? Use the circles from this activity to help you explain your thinking.

Lesson Synthesis

Describe a strategy to calculate the area of a circle if you know its diameter. Use the circle below to help you with your explanation.



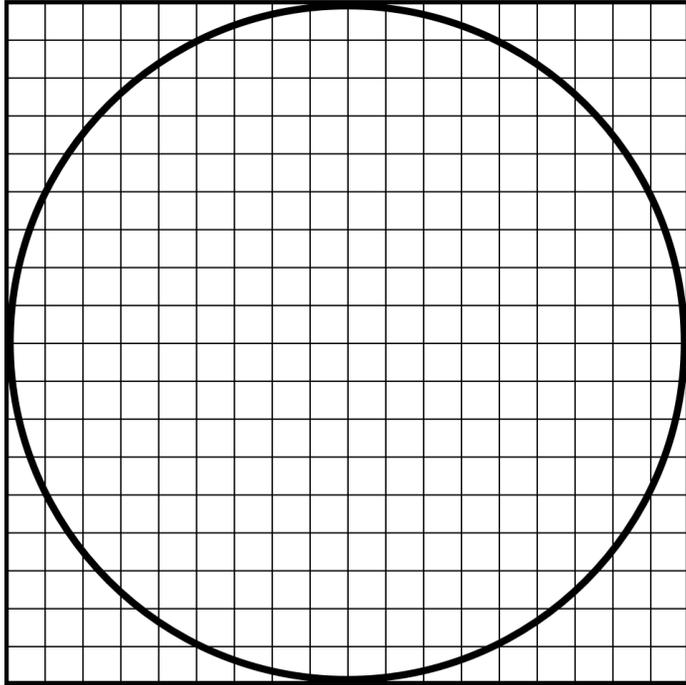
Cool-Down

Circle A has a diameter of approximately 20 inches.

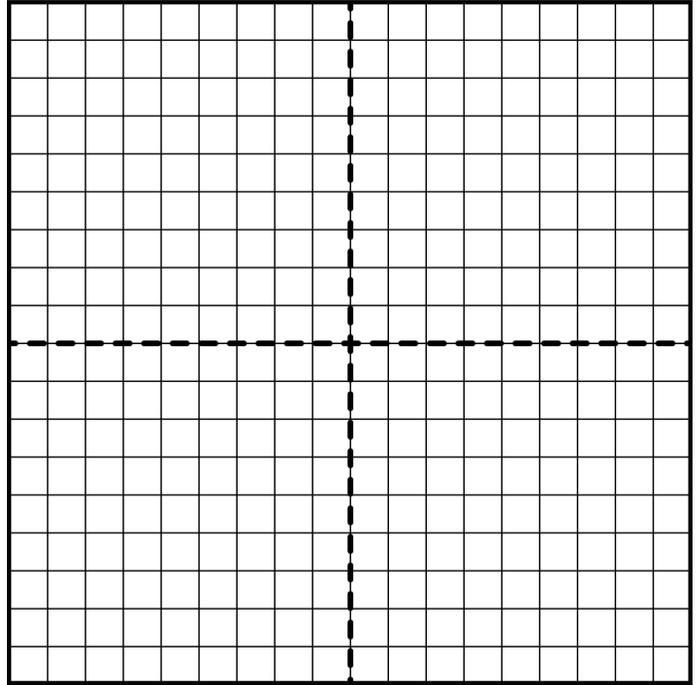
Which of these could be the area of circle A ? Explain your reasoning.

- A. About 100 in.^2
- B. About 300 in.^2
- C. About 400 in.^2
- D. About $1\,200 \text{ in.}^2$

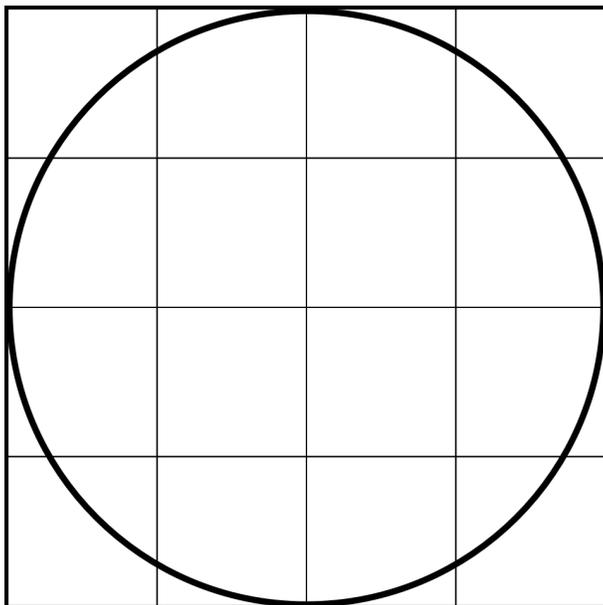
Circle *A*



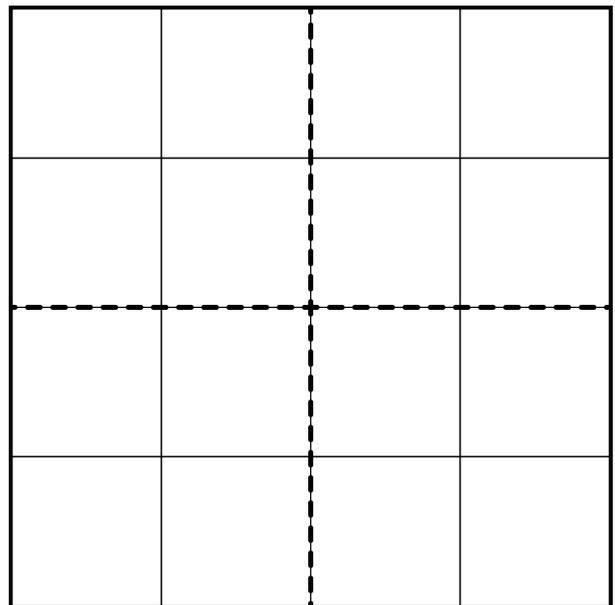
Radius Squares



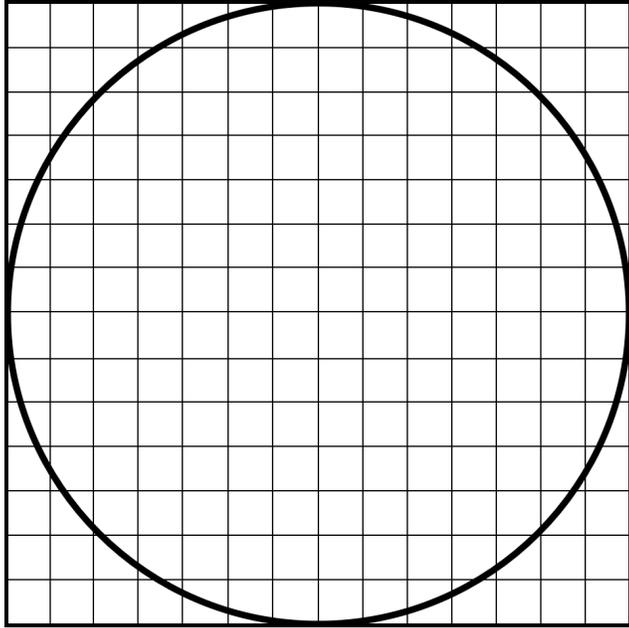
Circle *B*



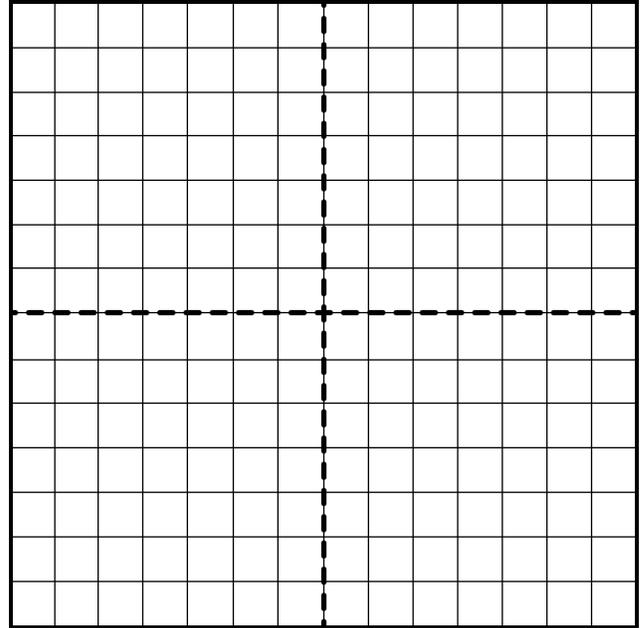
Radius Squares



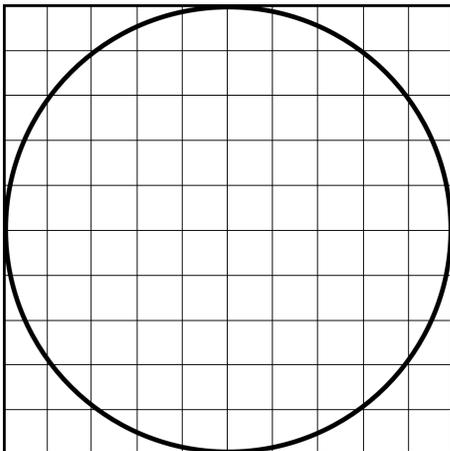
Circle C



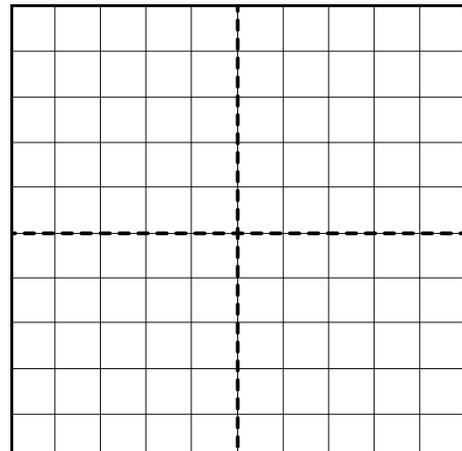
Radius Squares



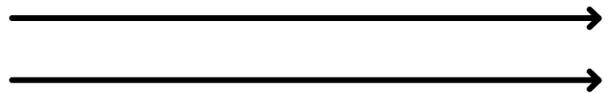
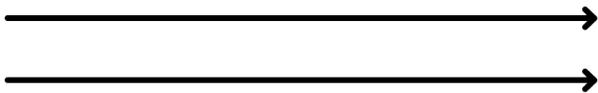
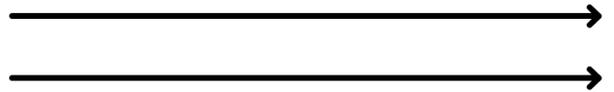
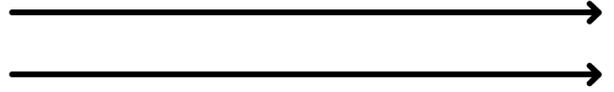
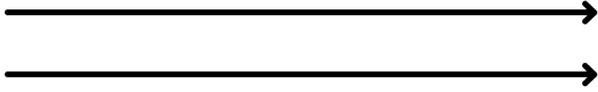
Circle D



Radius Squares



Double Number Lines



Tables

Activity 2: Adjusting a Recipe

1. Jamar is making Recipe B for his family. Determine how much of each ingredient he needs for one serving.

Recipe B

Number of Servings: 1

_____ lb. of peaches

_____ cup(s) of butter

_____ cup(s) of flour

_____ cup(s) of sugar

_____ tsp. of lemon juice

- 2.1 He wants to make just enough for 3 adults and 3 children. The children will eat less than the adults. How many servings should Jamar make? _____

Use the serving size you chose to adjust Recipe B.

Recipe B

Number of Servings: _____

_____ lb. of peaches

_____ cup(s) of butter

_____ cup(s) of flour

_____ cup(s) of sugar

_____ tsp. of lemon juice

- 2.2 Jamar has a measuring spoon that is $\frac{1}{8}$ teaspoon. How many spoonfuls of lemon juice does he need to make this recipe?

Lesson Synthesis

Mohamed's vegetable soup recipe calls for $\frac{1}{3}$ of a cup of carrots for every $\frac{1}{5}$ of a liter of soup.

Haru's soup calls for $\frac{7}{8}$ of a cup of carrots for every $\frac{1}{3}$ of a liter of soup.

What are some strategies we can use to show that Haru's soup will have more carrots per liter than Mohamed's soup?

Cool-Down

Whose lemonade mixture tastes stronger? Explain your thinking.

Aba mixes $2\frac{1}{2}$ cups of water with $\frac{1}{3}$ of a cup of lemon juice.	Esteban mixes $1\frac{2}{3}$ cups of water with $\frac{1}{4}$ of a cup of lemon juice.
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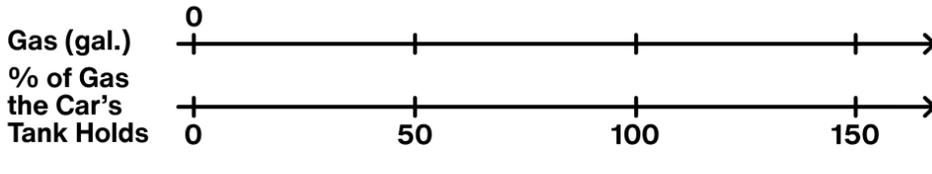
Activity 1: Double Number Lines

For each problem, fill in missing values on the double number line diagram to show the percentages that correspond to the original amount and to the new amount. Then answer the question.

- The gas tank in a car holds 12 gallons. The gas tank in a truck holds 50% more. How much gas does the truck's tank hold?

Complete the diagram.

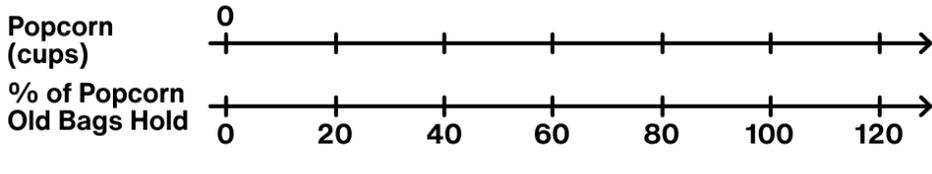
Answer the question.



- At a movie theater, the size of popcorn bags decreased by 20%. If the old bags held 15 cups of popcorn, how much do the new bags hold?

Complete the diagram.

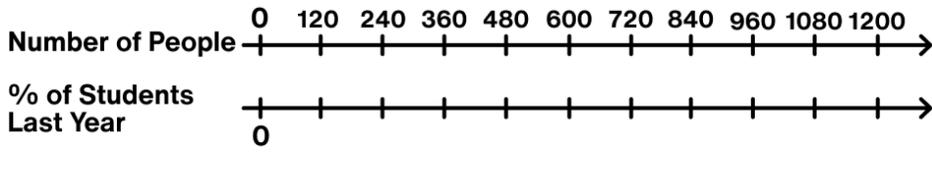
Answer the question.



- A school had 1 200 students last year and only 1 080 students this year. What was the percent decrease in the number of students?

Complete the diagram.

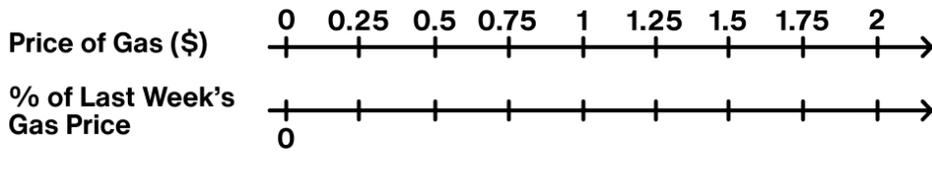
Answer the question.



- Last week, gas was \$1.25 per gallon. This week, gas was \$1.50 per gallon. By what percent did the price increase?

Complete the diagram.

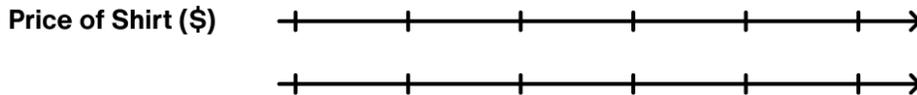
Answer the question.



5. After a 20% discount, the price of a T-shirt is \$24. What was the price before the discount?

Complete the diagram.

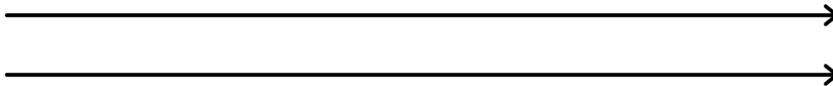
Answer the question.



6. The population of Boom Town has increased 25% since last year. The population is now 6 600. What was the population last year?

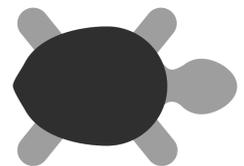
Complete the diagram.

Answer the question.



Activity 2: Green Sea Turtles

Some beaches where green sea turtles come ashore to lay eggs have been made protected sanctuaries so the eggs will not be disturbed.



This year, there were 234 nesting turtles at a sanctuary. That number is a 10% decrease compared to last year.

Create each representation to show how many nesting turtles were at the sanctuary last year.

Double Number Line

Table

Equation

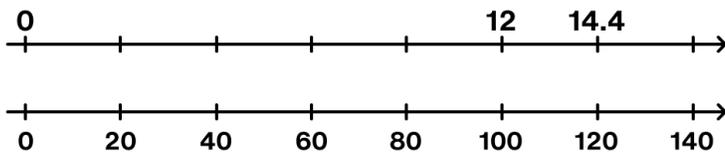
How many nesting turtles were at the sanctuary last year?

Lesson Synthesis

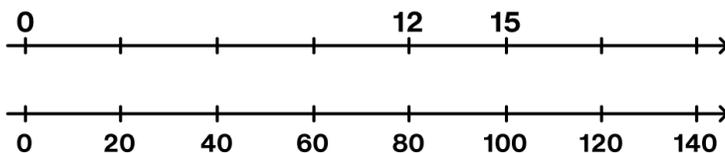
Abdullah and Kanna are working on the same problem:

A juice box has 20% more juice in its new packaging. The original packaging held 12 fluid ounces. How much juice does the new packaging hold?

Abdullah's double number line:



Kanna's double number line:



Whose double number line is correct?

Explain or show your reasoning.

Cool-Down

A company claims that their new bottle holds 40% more laundry soap.

If their original container held 53 fluid ounces of soap, how much does the new container hold?

Activity 1: Waiting Tables

Here is information about four servers who work at different restaurants: Laila, Tiana, Peter, and Julian. Select one of these people below. Make sure each group member selects a different person.

<input type="checkbox"/> Laila is 35 years old. She is married and has two children. She has worked at the same restaurant for 7 years. She works 40 hours per week and makes \$2.13 per hour. In a typical week, she serves 75 tables. The average bill at the restaurant is \$41 per table, and she typically receives an 18% tip.	<input type="checkbox"/> Tiana is 25 years old. She lives with a roommate and a dog. She has worked at a fancy restaurant for 6 months. She works 40 hours per week and makes \$2.13 per hour. She usually serves 45 tables per week. The average bill at the restaurant is \$130 per table, and she typically receives a 20% tip.
<input type="checkbox"/> Julian is 29 years old. He lives in Virginia with his 3-year-old son. He just finished his third year as a server. He works 40 hours per week and makes \$2.13 per hour. In a typical week, he serves 95 tables. The average bill at the restaurant is \$22 per table, and he typically receives a 15% tip.	<input type="checkbox"/> Peter is 19 years old. He lives at home with his parents and goes to college part-time. He recently started as a server, working 40 hours per week. Where Peter lives, the minimum wage for tipped and non-tipped employees is \$7.25 per hour. In the average week, he serves 90 tables whose typical bill is \$21 with an average tip of 15%.

With the support of your group, answer the questions below for the person(s) you selected.

- How much money does your person make in a typical week?

- Suppose people at the restaurant increase their tipping percentage by 5 percentage points (for example, 18% becomes 23%).

How much would your person make now?

By what *percent* would their pay increase?

- Discuss the following with your group:
 - Which of the four people makes the most money?
 - Whose pay increases by the highest percentage when the tips increase by 5%?
 - Do you think the way we pay servers in these examples is fair? Why or why not?

Activity 2: What's Fair?

1. Some restaurants have experimented with a different approach to paying servers. One approach is that servers would make \$15 per hour, but are not allowed to accept tips.

Which of the four people do you think would be happy with this approach? Why?

2. Consider these three approaches to paying servers that we have seen so far:

- A. Servers get paid \$2.13 per hour, plus tips.
- B. Servers get paid \$7.25 per hour, plus tips.
- C. Servers get paid \$15 per hour, with no tips.

Invent and describe a system to determine a server's pay that you think is fairer than the ones above. Calculate what each of the four people would earn under your system.

Are You Ready for More?

Danny Meyer owns 15 restaurants in New York City. In 2015, he announced that tipping would be eliminated at his restaurants, while the price of menu items would increase by 20%. Using a search engine, find and read at least one article about this (for instance, search "Danny Meyer tipping").

After reading, answer this question on a separate sheet of paper: *If you owned a restaurant, would you ban tipping? Why or why not?*



Lesson Synthesis

Describe how you can determine how much a restaurant server makes in a week.

Be as specific as you can.

Cool-Down

Tariq works as a server making \$9 per hour. In a typical 8-hour shift, he earns \$65 in tips.

The restaurant offers Tariq a 50% raise on his hourly rate. If he takes the offer, he would have to stop collecting tips.

If you were Tariq, would you accept this offer? Why or why not.

Activity 1: Stronger and Clearer Each Time

Select the topic that interests you. Then, write two questions about the topic that you could figure out using this information and whose answer is not already given.

As you are drafting questions, ask yourself:

- *Would the answer to this question be interesting or useful?*
- *Can you answer this question using only the information given?*
- *Is the answer to the question not obvious from the information?*

First Draft of Both Questions

Conversation Notes #1

Conversation Notes #2

Final Version of Both Questions

Activity 2: Make a Poster

Create a poster. Here is what your poster should include:

- A descriptive title.
- The two questions you asked.
- At least one representation of the situation (tape diagram, double number line, table, equation).
- Your answers to each question (with units).
- An explanation of how you calculated each answer.
- Two new questions that you have about this topic after analyzing the data.

Activity 2: Synthesis

Which representation(s) did you find most useful for answering the question you wrote?

Explain your thinking.

Activity 3: Gallery Tour

<p>What features of your classmates' posters helped you understand their thinking?</p>	<p>Describe something you would change about your poster now that you have seen other groups' work.</p>
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Activity 4: Revisions and Reflection

1. Use your thinking from the Gallery Tour to make your poster stronger and clearer.
2. Add at least one other representation (tape diagram, double number line, table, equation) to your poster.
3. Individually, answer the questions below.

<p>What did you learn about the wage gap and prison populations that was surprising or new?</p>	<p>What new questions do you have about these topics after seeing the work of other groups?</p>
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Lesson Synthesis

How can the math we learned in this unit help us answer questions about the world we live in?

Cool-Down

Here are two facts.

1. Write a question that you could figure out using this information and whose answer is not already given.

2. Answer your question.

In 2010, the number of wild tigers in the world reached an all-time low of 3 200.

Since 2010, the wild tiger population has been growing about 3.6% per year.

Source:

World Wildlife Foundation, "For the first time in 100 years, tiger numbers are growing"

Information Sheet**Wage Gap**

The average White man in America earned \$60 388 in 2017 and \$58 879 in 2000.

In America between 2000 and 2017, Black women's earnings increased by 2.57% on average to \$36 735.

In 2017, the average White woman in America earned about 23% less than the average White man.

In 2000, the average White woman in America earned \$42 591.

Compared to the average White man, the average Black man in America earned 27% less in 2000 and 30.3% less in 2017.

Prison Populations

In 2018, the prison population of India was about 466 000. In 1986, the prison population was 64% less than that.

China's population is currently 1.4 billion people, closely followed by India with 1.3 billion. Together, they make up 37% of the world's population.

Between 1986 and 2018, China's prison population increased from about 1.2 million to 1.71 million.

There are about 328.2 million people living in the United States.

In 1986, the U.S. prison population was about 546 600. By 2018, the U.S. prison population had increased by 321%.

Activity 1: Stronger and Clearer Each Time

Select the topic that interests you. Then, write two questions about the topic that you could figure out using this information and whose answer is not already given.

As you are drafting questions, ask yourself:

- *Would the answer to this question be interesting or useful?*
- *Can you answer this question using only the information given?*
- *Is the answer to the question not obvious from the information?*

First Draft of Both Questions	
Conversation Notes #1	Conversation Notes #2
Final Version of Both Questions	

Activity 2: Make a Poster

Create a poster. Here is what your poster should include:

- A descriptive title.
- The two questions you asked.
- At least one representation of the situation (tape diagram, double number line, table, equation).
- Your answers to each question (with units).
- An explanation of how you calculated each answer.
- Two new questions that you have about this topic after analyzing the data.

$$\frac{1}{7}$$

$$-\frac{1}{7}$$

$$1$$

$$-1$$

$$+ 9.2$$

$$-9.2$$

$$\frac{2}{5}$$

$$-0.4$$

$$\frac{6}{7}$$

$$-\frac{6}{7}$$

$$9.02$$

$$-9.02$$

$$+ 5$$

$$-5$$

$$+ 1.25$$

$$-\frac{5}{4}$$

$$2\frac{2}{3}$$

$$-\frac{8}{3}$$

$$+ 2$$

$$-2$$

$$+ 1.5$$

$$-1\frac{1}{2}$$

$$2.5$$

$$-2\frac{1}{2}$$

$$+ 2.01 \quad - 2.01$$

$$3$$

$$-3$$

$$\frac{1}{3}$$

$$-\frac{1}{3}$$

$$2.10$$

$$-2.10$$

Activity 1: Greater Than?

My number: _____

Round 1

_____'s number: _____ is greater than _____. _____ > _____
(Name)

Round 2

_____'s number: _____ is greater than _____. _____ > _____
(Name)

Round 3

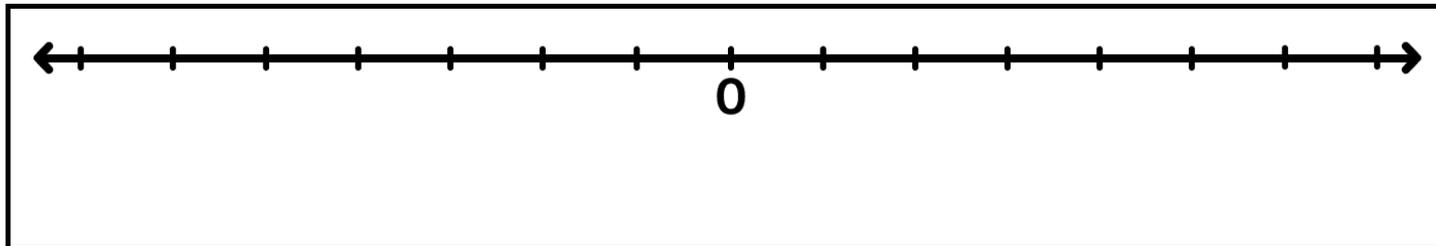
_____'s number: _____ is greater than _____. _____ > _____
(Name)

Activity 2: Least to Greatest

Round 4

_____ < _____ _____ > _____ _____ < _____

Round 5

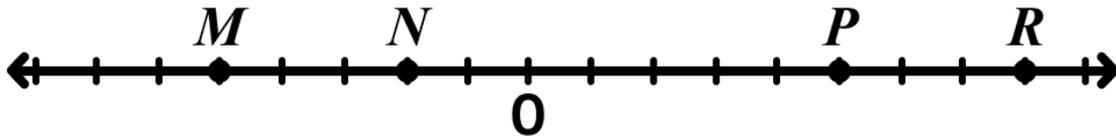


Round 6

Least _____ Greatest

Lesson Synthesis

Use the number line to complete each sentence.



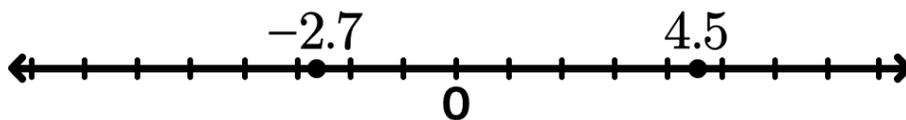
1. ____ is the opposite of ____ because . . .

2. ____ is greater than ____ because . . .

3. ____ is the least of the numbers because . . .

Cool-Down

1. Write a sentence comparing the two numbers shown on the number line.



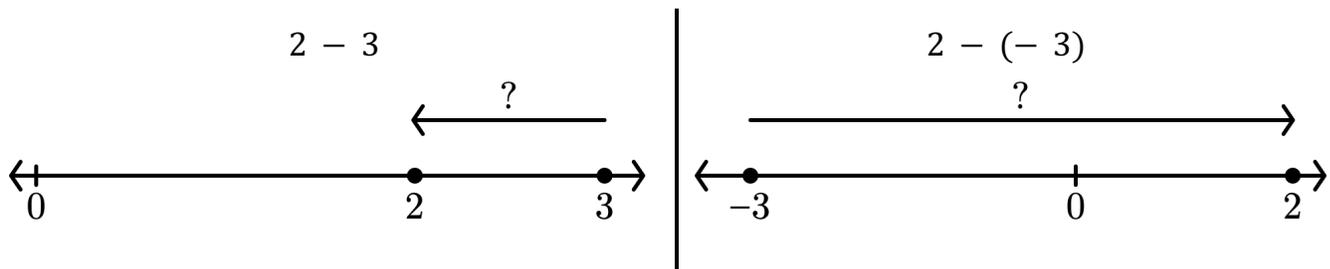
2. Order these numbers from least to greatest.

-3 3.1 -2.5 2.5 $\frac{1}{4}$

Least _____ Greatest

Activity 1: Draw Your Own Diagram

1. Renata drew a number line diagram to help her think about Problems 3 and 4 from the warm-up. Explain how you think Renata drew each number line.



Renata's strategy:

For each expression, draw a number line diagram and determine its value.

2.1 $7 - 4 = \underline{\hspace{2cm}}$



2.2 $-3.5 - (-2) = \underline{\hspace{2cm}}$



$4 - 7 = \underline{\hspace{2cm}}$



$-2 - (-3.5) = \underline{\hspace{2cm}}$



2.3 $3 - (-9) = \underline{\hspace{2cm}}$



2.4 $(-1.2) - (3.6) = \underline{\hspace{2cm}}$



$(-9) - 3 = \underline{\hspace{2cm}}$



$(3.6) - (-1.2) = \underline{\hspace{2cm}}$



3. Describe 2–3 patterns you noticed about the number line diagrams or their values.

Activity 2: Draw Your Own Conclusion

- Record your thinking for the statement your teacher displays. Use examples, words, or number line diagrams to support your claim.

This statement is (always / sometimes / never) true.

My reasoning:

- Select one of these statements. Explain whether it is always, sometimes, or never true. Use examples, words, or number line diagrams to support your claim.

Statement A	Statement B	Statement C
$x + 1$ is positive.	$x + 1$ is more than $x - 1$.	$x + (-x)$ is positive.

Statement ____ is (always / sometimes / never) true.

My reasoning:

- Select one of these statements. Explain whether it is always, sometimes, or never true. Use examples and number line diagrams to support your explanation.

Statement D	Statement E	Statement F
$x - y$ is the opposite of $y - x$.	x is less than $x + y$	$x - y$ is greater than $x + y$.

Statement ____ is (always / sometimes / never) true.

My reasoning:

Are You Ready for More?

Challenge your classmates. Write your own statement similar to the ones above that is either **always** or **never** true. Then trade statements with a classmate and decide if their statement is always or never true.

Lesson Synthesis

What happens to the value of a subtraction expression when you rearrange the order of the numbers? Use the examples in the box if they help you with your explanation.

$7 - 4 \text{ and } 4 - 7$ $- 2 - (- 3.5) \text{ and}$ $- 3.5 - (- 2)$
--

Cool-Down

For each expression, draw a number line diagram and determine its value.

$$- 2.3 - (- 3.5) =$$



$$- 2.3 + (- 3.5) =$$



Puzzle Workspace

Use this space to record all of your attempts and thinking as you work on each puzzle.

After each attempt, consider what you learned and how your strategy might change on the next attempt.

Puzzle #1

Puzzle #2

Reflection on Puzzles 1 and 2

Use this space to record things you learned while solving these puzzles, including advice to yourself or others.

Puzzle Workspace Continued

Puzzle #3

Puzzle #4

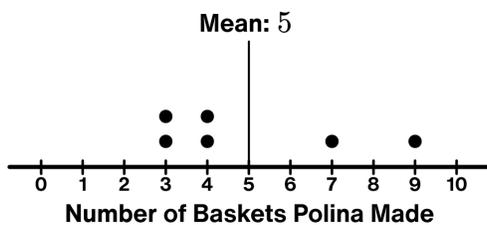
Are You Ready for More?

Reflection on Puzzles 3 and 4

Use this space to record things you learned while solving these puzzles, including advice to yourself or others.

Polina's Data

Number of Baskets	3	3	4	4	7	9
Absolute Deviation (distance from <u>5</u>) mean	2	2	1	1	2	4



Mean Absolute Deviation (MAD)

Sum of absolute deviations:

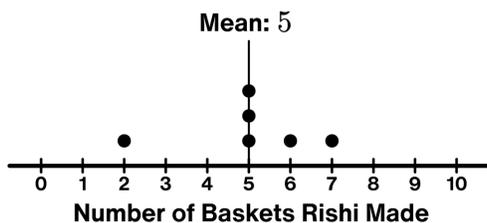
$$2 + 2 + 1 + 1 + 2 + 4 = 12$$

Average or mean of the absolute deviations:

$$12 \div 6 = 2$$

Rishi's Data

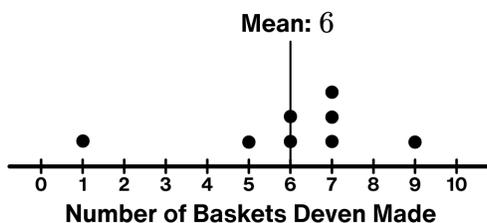
Number of Baskets	2	5	5	5	6	7
Absolute Deviation (distance from _____) mean						



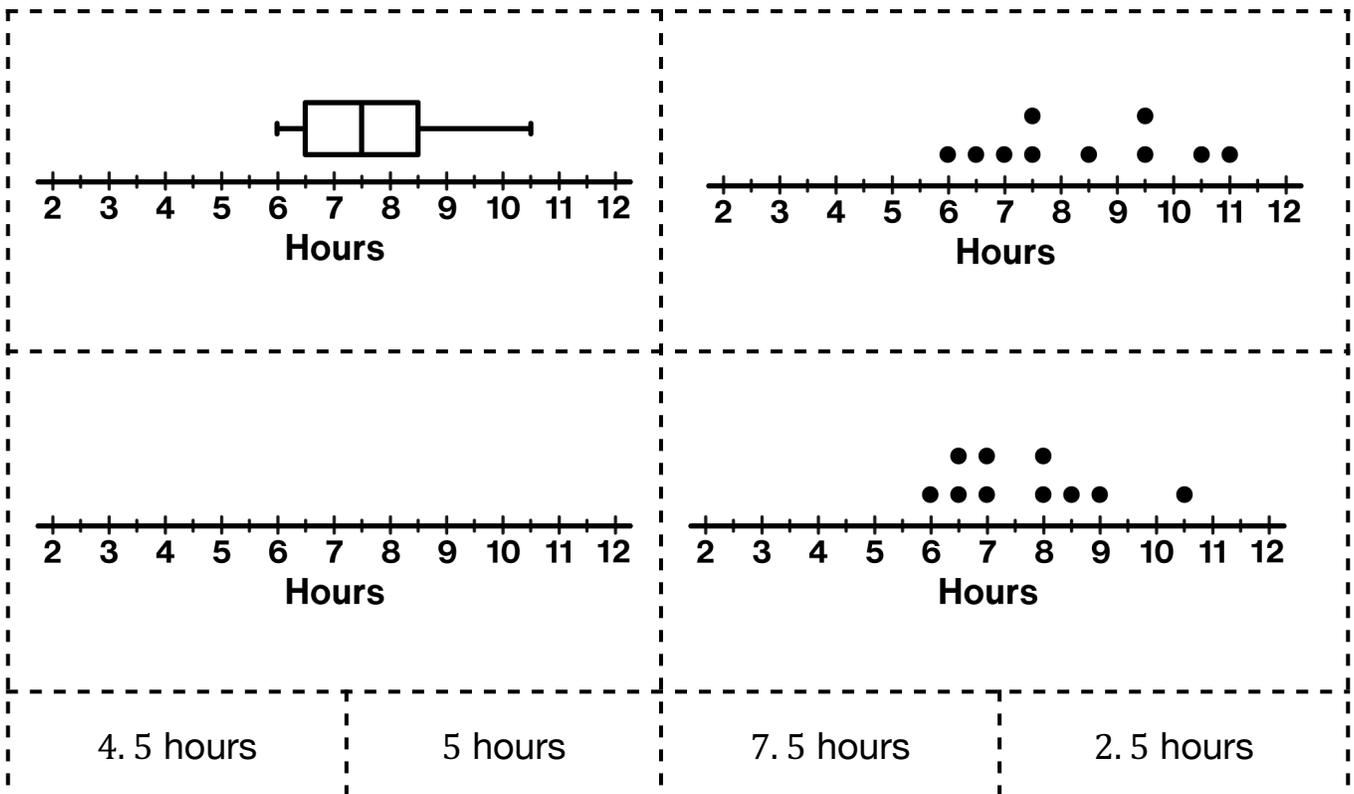
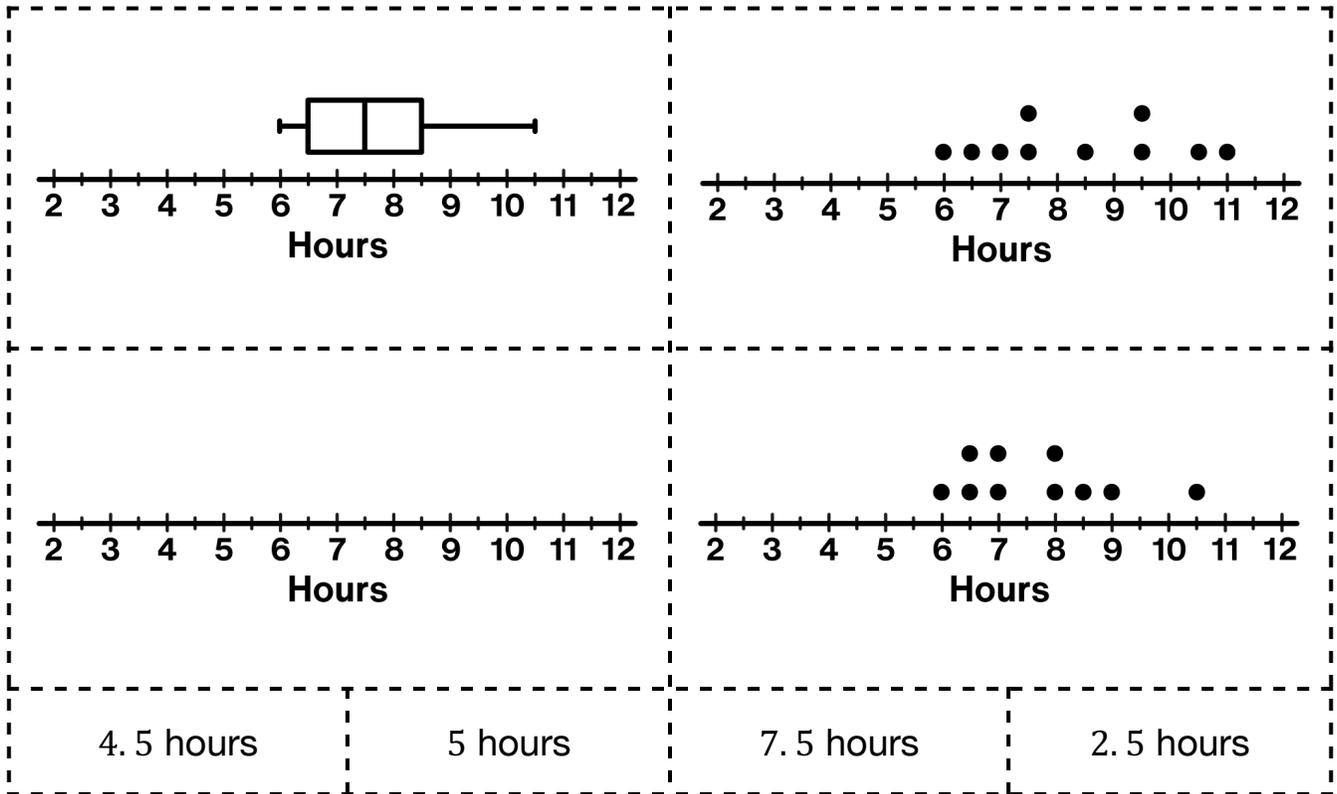
Mean Absolute Deviation (MAD)

Deven's Data

Number of Baskets	1	5	6	6	7	7	7	9
Absolute Deviation (distance from _____) mean								



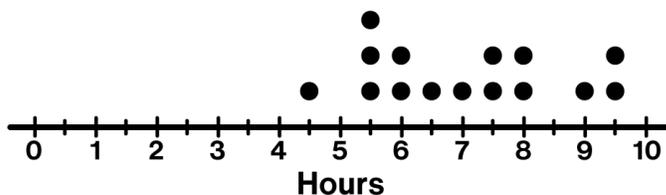
Mean Absolute Deviation (MAD)



Warm-Up

Jalen recorded how long it took to drive from St. Louis to Chicago the last 15 times his family went.

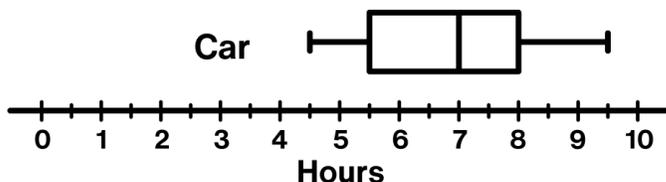
- Determine Q1, Q2, and Q3.
Label them on the dot plot.



Your teacher will show you an animation.

- Discuss with a partner: *What do you notice? What do you wonder?*
- Label each of these words on the box plot.

- Minimum (Min.)
- Quartile 1 (Q1)
- Quartile 2 (Q2)
- Quartile 3 (Q3)
- Maximum (Max.)



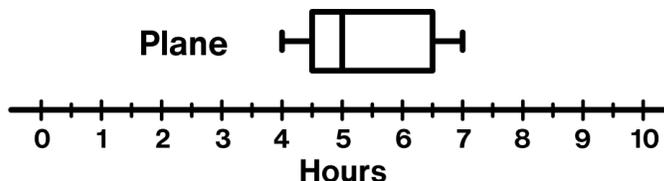
Activity 1: Car or Plane?

Jalen's family is considering going by plane for their next trip to Chicago.

Jalen's family has made the trip by plane before. Here is a box plot representing those travel times.

- Determine each statistic for the plane data.

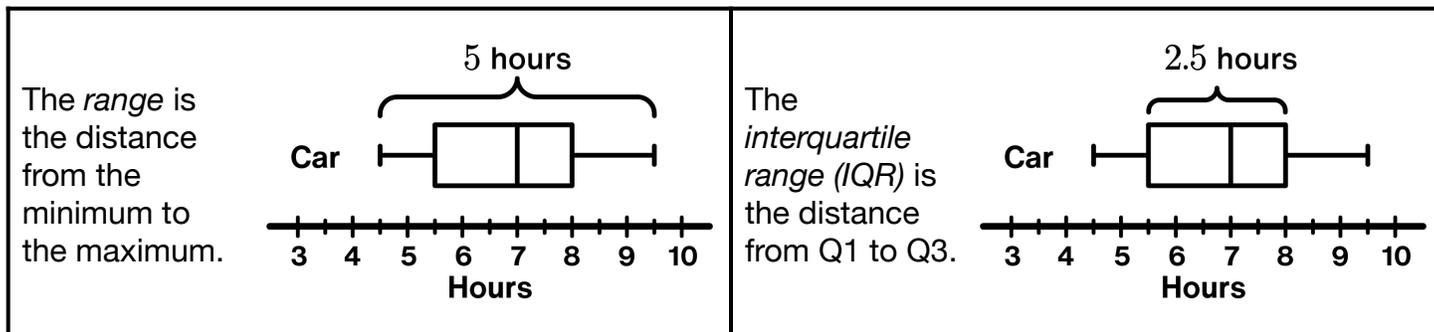
- Minimum: _____
- Quartile 1: _____
- Median: _____
- Quartile 3: _____
- Maximum: _____



Unit 6.8, Lesson 14: Car, Plane, Bus, or Train?

Jalen’s family is interested in the spread of the data for car and plane times.

There are two ways to describe the spread of a box plot.



2. Read the definitions above.

How are range and IQR similar?

How are they different?

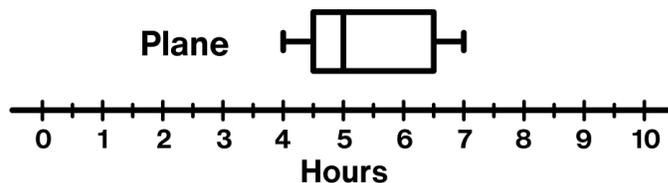
3. Jalen says that one of these is like the size of the middle half.

Which measure of spread do you think he is talking about? Explain your reasoning.

4. For the plane data, what is the:

Range: _____

IQR: _____



5. Based on this data, would you recommend Jalen’s family go by car or by plane next time?

Explain your reasoning.

Activity 2: Bus or Train?

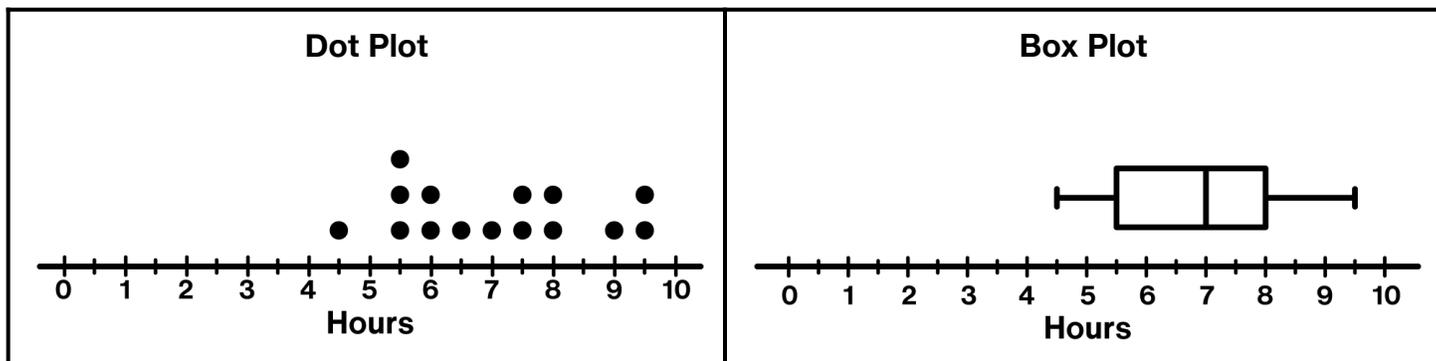
1. Jalen’s family has also gone to Chicago by bus and by train. Help them complete the table.

	Bus	Train
Travel Times (hours)	7.5 10.5 9.5 9.5 6	6.5 8.5 6 10.5 6.5
	7 6.5 7.5 11 8.5	8 7 7 9 8
Dot Plot		
Box Plot		
Median		
IQR		
Range		

2. Which mode of transportation (car, train, bus, plane) would you recommend for Jalen’s family? Use evidence to support your argument.

Lesson Synthesis

Here is a dot plot and a box plot of Jalen’s data for traveling by car.



Which (**dot plot** or **box plot**) would you use to determine:

The median?

The number of data points?

The range?

The IQR?

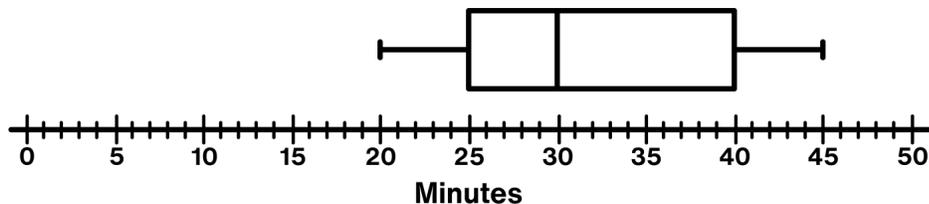
Cool-Down

Inola took the bus to school most days in January.

She wrote down how many minutes it took to get to school each day and made a box plot.

For this data, what is the:

- Median: _____
- IQR: _____
- Range: _____



Activity 2: Texting Title



	Number of Texts Sent Per Day
Students	0, 3, 5, 10, 20, 30, 100
Teachers	2, 20, 30, 45, 50, 50, 90

Based on this data . . .

- | | |
|---|--|
| <p>1.1 Why might someone believe this headline?</p> | <p>1.2 Why might someone not believe this headline?</p> |
|---|--|

2. Use Ama's strategy to calculate how many MADs apart the means are.

3. Do your calculations make you believe the headline more or less? Explain your thinking.

Nikhil calculated the median instead of the mean and is wondering if he can still use Ama's strategy. Ama says he can but should use the IQR instead of the MAD.

- | | |
|---|---|
| <p>4.1 Calculate the median and IQR of each data set.</p> | <p>4.2 How many IQRs is the difference between the medians?</p> |
|---|---|

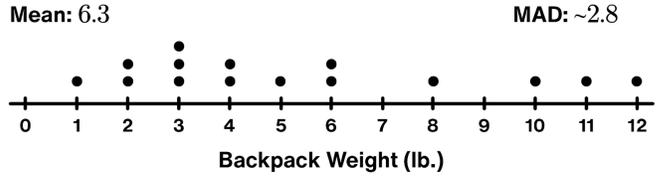
5. Do your calculations make you believe the headline more or less? Explain your thinking.

Lesson Synthesis

Describe how you can use the MAD to decide how different two populations are.

Use the data from Median Middle School if it helps you with your thinking.

6th Graders



8th Graders: Backpack Weight (lb.)

10, 11, 11, 12, 13, 13, 14, 14, 15,
15, 16, 18, 18, 20, 22

Cool-Down

Caasi wonders if students watched more movies than teachers over the winter break.

After collecting data from a random sample of 11 students and 11 teachers, she decides that the difference between the number of movies watched isn't that big.

Do you agree with Caasi?

Use at least two pieces of evidence to support your claim.

Teachers

1, 2, 2, 2, 3, 3, 3, 3, 4, 5, 5

Students

