

Math 7 | APRIL 2020

{ Mrs. Jones: 443-390-6673 }



A virtual hello to you!

I hope you are well and would love to hear from you whether you are doing well or struggling during this strange time. It has been an odd transition for me and many of my family and friends, but I am thankful to be able to rely on a supportive community. **I hope that we at Crossroads can be part of your supportive community.**

Community Video Calls

In the spirit of that community, I would like to offer a **weekly video call time** for students to connect with each other and provide a sense of our usual classroom time together. This is **completely optional**. If students would like to participate, they can **go to the website link** on their phone or on a computer. You can then choose to show your video or not. Students can also choose to participate via phone audio only, which does not require internet access.

When: **Every Tuesday from 11:20-11:40am** (immediately before my available class time)

Video and audio: <https://qrqo.page.link/5zSxx>

Audio only, no internet required: call **571-392-7650** and enter PIN: 149 361 2084

Class Time Availability

If students would like more 1:1 or small group support from me, I will have a **daily class time** Monday-Friday, except on Wednesdays. During class time I will be immediately available to assist students in their virtual learning. If contacted outside this time, I will do my best to respond to you as quickly as I am able. Students can call, text, or video with me during this time.

When: **11:40am-12:40pm Monday-Friday, except Wednesdays** --- 443-390-6673

Work Expectations

I have provided **approximately 40minutes of math each day** as a combination of our usual **weekly warm up & KhanAcademy** (which I have made into an identical paper format as well). The work is very similar to what we would be doing in class if we were still at school as we usually spend this month reviewing all of our skills. While the warm up reviews a constant mix of skills to keep them all fresh, the **KhanAcademy work is themed each week** to focus on one unit and **"due" Fridays at 10pm**. Towards the end of the month you will see new work with our Geometry unit – **please utilize the videos on KhanAcademy and YouTube and reach out if you have any questions**. If students find the rigor to be too challenging or not challenging enough, please reach out to me for a modified curriculum.

7° de Matemáticas | Abril 2020

{ Sra. Jones: 443-390-6673 }

¡Reciban un saludo virtual!

Primeramente, espero que estén bien. Me encantaría saber de ustedes – si la están pasando bien, o si hay algo en el que podría serles de utilidad. Lo que en estos momentos estamos viviendo es complicado para todos: para mí, mi familia y amigos, por ejemplo. Sin embargo, estoy sumamente agradecida por que tengo a seres queridos que me dan amor y que me apoyan. Todos en Crossroads esperamos ser de ustedes una comunidad similar: una entidad en la que pueden confiar y encontrar amor y apoyo.

Videos a la Comunidad

Par que seamos verdaderamente una comunidad, me gustaría conectar con cada uno de mis alumnos por medio una llamada de video *cada semana*. Esto es completamente opcional: aquellos interesados podrían hacerlo ingresando al sitio web que aparece abajo. Hay dos opciones: hablar conmigo por video, o hablar conmigo simplemente vía audio, sin incluir imágenes o video. Aquellos que opten hablar conmigo solamente vía audio no necesitan tener acceso al internet. Comparto los detalles:

¿Cuándo? Cada martes, de las 11:20 a la 11:40 a.m. (es decir, inmediatamente antes de mi clase virtual).

Video y Audio: <https://qrqo.page.link/5zSxx>

Video (no se necesita el internet): teléfono: 571-392-7650 / PIN: 149 361 2084.

Disponibilidad Adicional

Para serles de más utilidad o para trabajar de forma grupal, hago de su conocimiento de que tendré clases virtuales a diario: **de las 11:40 a.m. a las 12:40 p.m. (a excepción de los miércoles)**. Durante estas llamadas, podría contestar dudas de forma instantánea en esta nueva forma de aprender que estamos todos experimentando por primera vez. Aquellos interesados deben marcarme, durante el horario que previamente expliqué, al **443-390-6673**.

Expectativas

El trabajo académico que le estoy dando a mis alumnos equivale a **40 minutos del día**. En este tiempo, ya está incluido otras cosas que a diario hacemos en clase: las actividades de "warm up" y "KhanAcademy". Todo es idéntico a lo que a diario hacemos en clase, sólo que ahora está impreso. Es decir, las actividades de "warm up" sirven repasar conceptos aprendidos en clase y "KhanAcademy" sirve para aprender algo nuevo cada semana (el concepto cambia cada semana). **El trabajo de "KhanAcademy" se debe entregar cada viernes a las 10 p.m.** Ojo: al final del mes, notarán nuevos conceptos de Geometría – utilicen los videos de "KhanAcademy" y "YouTube", además, podrían comunicarse conmigo si lo ven necesario. Adicionalmente, aquellos que encuentren estas actividades demasadamente difícil de hacer, podrían comunicarse conmigo para recibir un currículo diferente.

Khan Academy Daily Assignments

ASSIGNMENTS FROM TEACHER

- Once logged into KhanAcademy, look on the left side of the screen to select "Assignments".
- Once there, **review "Active" assignments and complete by assigned deadline.**
- Additionally, *confirm you have finished any "Past" assignments* you might have missed.

Please Text or call with questions!
443-390-6673

Khan Academy GROWTH Competition

- Prizes** will be awarded to **students who make the most percentage growth** on their grade level course goal.
- There will be an **additional big prize to anyone who reaches 100% course mastery** by the assigned date!

See the next page for details of how to log in and get started!

Clever.com Portal

Single sign on. Sign into this website and it automatically will sign you in to others.

Navigate to: **CLEVER.COM**

THEN CLICK HERE

Clever

Schools App Gallery Pricing Partners Company Help

Log in as a student

LOGIN PROCESS

Use your BCPS Login Information to sign in.

BCPSS Login Information

User: studentID#@bcps.org
Password: **CSstudent19**

VIEW RESOURCES

If you click on these resources within Clever – it will take you directly there *and login you in automatically!* Click the heart them to add them to your favorites!

Favorite resources

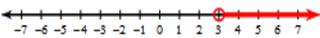
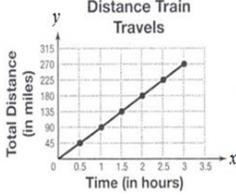
MATH 7

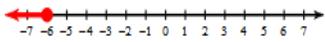
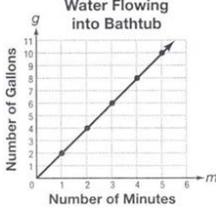
APRIL

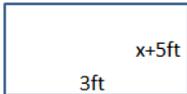
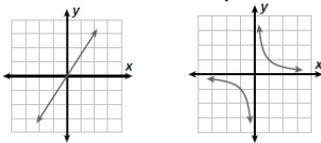
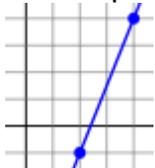
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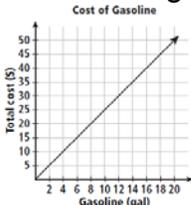
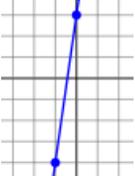
Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
<p>Daily Schedule:</p> <ul style="list-style-type: none"> <input type="checkbox"/> 15-20 min: Warm Up <input type="checkbox"/> 20-25min: Assigned KhanAcademy Tasks ("Active" Assignments) 	<p>30</p> <p>Hello!</p> <p>Sending you all a virtual hug and hope you are well! Looking forward to connecting!</p>	<p>31</p>	<p>1</p> <ul style="list-style-type: none"> <input type="checkbox"/> Text Mrs. Jones a picture of something that brings you joy! I'll text one back! <p>443-390-6673</p>	<p>2</p>	<p>3</p> <ul style="list-style-type: none"> <input type="checkbox"/> Finish March packet <input type="checkbox"/> Finish Khan Academy "Past" tasks assigned due by March 29th 	<p>4</p> 
<p>5</p> <p>Week1:</p> <p>Fractions, decimals, and percentages + Negative numbers: multiply and divide</p>	<p>6</p> <ul style="list-style-type: none"> <input type="checkbox"/> Warm Up #21 – Mon <input type="checkbox"/> Write decimals as fractions <input type="checkbox"/> Rewriting decimals as fractions challenge <input type="checkbox"/> Converting fractions to decimals <input type="checkbox"/> Order rational numbers 	<p>7</p> <ul style="list-style-type: none"> <input type="checkbox"/> Warm Up #21 – Tues <input type="checkbox"/> Adding & subtracting rational numbers <input type="checkbox"/> Equivalent expressions with percent problems <input type="checkbox"/> Percent problems <input type="checkbox"/> Tax and tip word problems 	<p>8</p> <ul style="list-style-type: none"> <input type="checkbox"/> Warm Up #21 – Wed <input type="checkbox"/> Discount, markup, and commission word problems <input type="checkbox"/> Rational number word problems <input type="checkbox"/> Signs of expressions <input type="checkbox"/> Multiplying negative numbers <input type="checkbox"/> Dividing negative numbers 	<p>9</p> <ul style="list-style-type: none"> <input type="checkbox"/> Warm Up #21 – Thurs <input type="checkbox"/> One-step equations with negatives (multiply & divide) <input type="checkbox"/> Multiplying & dividing negative numbers word problems <input type="checkbox"/> Negative signs in fractions <input type="checkbox"/> Negative signs in fractions (with variables) 	<p>10</p> <ul style="list-style-type: none"> <input type="checkbox"/> Spend 15-20 min on Khan mastery challenge <input type="checkbox"/> Multiplying positive and negative fractions <input type="checkbox"/> Dividing positive and negative fractions <input type="checkbox"/> Dividing mixed numbers with negatives <input type="checkbox"/> Equivalent expressions with negative numbers 	<p>11</p> <p>Reminder:</p> <ul style="list-style-type: none"> <input type="checkbox"/> Assignments are "due" weekly by Friday at 10pm. This is to help keep you on track and... ..to make sure you enjoy your weekends! <p><u>Finish early?</u></p> <ul style="list-style-type: none"> <input type="checkbox"/> Use your remaining daily work time to work on the mastery challenge so you can be a prize winner!
<p>12</p> <p>Week2:</p> <p>Negative numbers: addition and subtraction</p>	<p>13</p> <ul style="list-style-type: none"> <input type="checkbox"/> Warm Up #22 – Mon <input type="checkbox"/> Signs of sums <input type="checkbox"/> Adding negative numbers <input type="checkbox"/> Missing numbers on the number line <input type="checkbox"/> Understanding subtraction as adding the opposite 	<p>14</p> <ul style="list-style-type: none"> <input type="checkbox"/> Warm Up #22 – Tues <input type="checkbox"/> Subtracting negative numbers <input type="checkbox"/> Adding negative numbers on the number line <input type="checkbox"/> Number equations & number lines <input type="checkbox"/> Interpret negative number addition and subtraction expressions 	<p>15</p> <ul style="list-style-type: none"> <input type="checkbox"/> Warm Up #22 – Wed <input type="checkbox"/> Adding & subtracting negative numbers <input type="checkbox"/> Addition & subtraction: find the missing value <input type="checkbox"/> Adding & subtracting negative fractions <input type="checkbox"/> Interpreting negative number statements 	<p>16</p> <ul style="list-style-type: none"> <input type="checkbox"/> Warm Up #22 –Thurs <input type="checkbox"/> Negative number addition and subtraction: word problems <input type="checkbox"/> Absolute value to find distance <input type="checkbox"/> Equivalent expressions with negative numbers <input type="checkbox"/> Equivalent expressions with negative numbers and variables 	<p>17</p> <ul style="list-style-type: none"> <input type="checkbox"/> Spend 15-20 min on Khan mastery challenge <input type="checkbox"/> Substitution with negative numbers <input type="checkbox"/> Ordering negative number expressions <input type="checkbox"/> One-step equations with negatives (add & subtract) <input type="checkbox"/> Order of operations with negative numbers 	<p>18</p> <p><u>Tip #1</u></p> <ul style="list-style-type: none"> <input type="checkbox"/> Check off, mark through, or highlight each item as you complete it! <p><u>Tip #2</u></p> <ul style="list-style-type: none"> <input type="checkbox"/> On phones, scroll to the right to see scores assignment due dates. <p><u>Tip #3</u></p> <ul style="list-style-type: none"> <input type="checkbox"/> If you miss a day, you can access your past assignments by clicking "Past" instead of "Active" above your assignment list.

<p>19</p> <p>Week3: Expressions, equations, and inequalities</p>	<p>20</p> <ul style="list-style-type: none"> <input type="checkbox"/> Warm Up #23 – Mon <input type="checkbox"/> Combining like terms with negative coefficients <input type="checkbox"/> Combining like terms with negative coefficients & distribution <input type="checkbox"/> Combining like terms with rational coefficients 	<p>21</p> <ul style="list-style-type: none"> <input type="checkbox"/> Warm Up #23 – Tues <input type="checkbox"/> Distributive property with variables (negative numbers) <input type="checkbox"/> Equivalent expressions: negative numbers & distribution <input type="checkbox"/> Interpreting linear expressions <input type="checkbox"/> Writing expressions word problems 	<p>22</p> <ul style="list-style-type: none"> <input type="checkbox"/> Warm Up #23 – Wed <input type="checkbox"/> Two-step equations <input type="checkbox"/> Two-step equations with decimals and fractions <input type="checkbox"/> Find the mistake: two-step equations <input type="checkbox"/> Interpret two-step equation word problems 	<p>23</p> <ul style="list-style-type: none"> <input type="checkbox"/> Warm Up #23 – Thurs <input type="checkbox"/> Two-step equation word problems <input type="checkbox"/> Inequality from a graph <input type="checkbox"/> Plotting inequalities <input type="checkbox"/> Testing solutions to inequalities 	<p>24</p> <ul style="list-style-type: none"> <input type="checkbox"/> Spend 15-20 min on Khan mastery challenge <input type="checkbox"/> One-step inequalities <input type="checkbox"/> Two-step inequalities <input type="checkbox"/> Two-step inequality word problems 	<p>25</p> <p>Tip #4</p> <ul style="list-style-type: none"> <input type="checkbox"/> You can “Redo” any assignment on KhanAcademy to improve your score! <p>Tip #5</p> <ul style="list-style-type: none"> <input type="checkbox"/> Feel free to move at your own pace. If you complete all the work, message me for an advanced curriculum.
<p>26</p> <p>Week4: Statistics & Probability</p> <p>Probability is the chance or likelihood that something will happen.</p> <p>Probability is written as a fraction, decimal, or percent. It is always out of 1 whole or 100%.</p> <p>Probability is viewed on a scale from 0 to 1. A 0 means absolutely no way it can happen and a 1 means it’s definitely 100% going to happen.</p> <p><u>Calculating Probability:</u></p> <p><i>Options you want</i> <i>Total options</i></p>	<p>27</p> <ul style="list-style-type: none"> <input type="checkbox"/> Warm Up #24 – Mon ▷ Intro to theoretical probability ▷ Simple probability: yellow marble ▷ Simple probability: blue marble <input type="checkbox"/> Practice: Simple probability ▷ Experimental probability <input type="checkbox"/> Practice: Experimental probability 	<p>28</p> <ul style="list-style-type: none"> <input type="checkbox"/> Warm Up #24 – Tues ▷ Intuitive sense of probabilities <input type="checkbox"/> Practice: Comparing probabilities ▷ Theoretical and experimental probabilities ▷ Making predictions with probability <input type="checkbox"/> Practice: Making predictions with probability 	<p>29</p> <ul style="list-style-type: none"> <input type="checkbox"/> Warm Up #24 – Wed ▷ Probability models example: frozen yogurt <input type="checkbox"/> Practice: Probability models ▷ Sample spaces for compound events <input type="checkbox"/> Practice: Sample spaces for compound events ▷ Die rolling probability 	<p>30</p> <ul style="list-style-type: none"> <input type="checkbox"/> Warm Up #24 – Thurs ▷ Probability of a compound event <input type="checkbox"/> Practice: probabilities of compound events ▷ Counting outcomes: flower pots ▷ Count outcomes using tree diagram <input type="checkbox"/> Practice: The counting principle 	<p>(We made it to May!). 1</p> <ul style="list-style-type: none"> <input type="checkbox"/> Spend 15-20 min on Khan mastery challenge ▷ Reasonable samples <input type="checkbox"/> Practice: Valid claims <input type="checkbox"/> Practice: Making inferences from random samples ▷ Comparing distributions with dot plots (example problem) <input type="checkbox"/> Practice: Comparing distributions 	<p>2</p> <p style="text-align: center;"><u>YOU DID IT!</u> <u>Happy weekend!</u></p> 

Monday	Tuesday
<p>Roxanna earns 1.5 her normal hourly rate for overtime pay. Last week, Roxanna earned \$72.00 in overtime pay for 4 hours. What is Roxana's normal hourly pay?</p>	<p>Jan spent the day at the mall. She came home with \$8.25. She spent \$6.25 on earrings and 4 times that amount on a shirt. How much money did she take to the mall originally?</p>
<p>Solve: $-5.37 + q \leq 20.63$</p>	<p>Solve: $7 < m - 5$</p>
<p>Write an inequality that represents the graph below:</p> 	<p>Graph the inequality on a number line:</p> $15 > m$ 
<p>A child should no longer use a booster seat when they reach 4'9" tall. Janet is 59 inches tall. Can she go without a booster seat? Explain?</p>	<p>Tim earns \$120 plus \$30 for each lawn he mows. Write an inequality to represent how many lawns he needs to mow to make more than \$310.</p>
<p>Which has the best unit rate?</p> <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="text-align: center;">  <p>Grande 16 oz \$4.25</p> </div> <div style="text-align: center;">  <p>Venti 20 oz \$4.55</p> </div> </div>	<p>Joe drove 538 miles in 9 hours 15 minutes. What was his average speed per hour?</p>
<p>Which equation(s) represents a proportional relationship?</p> <p>A) $y = 5 + x$ B) $y = 4x$ C) $y = 7x^2$ D) $y = 2 - x$</p>	<p>What does the point (1,90) represent on the graph?</p> 
<p>Maria works as a florist and worked 15 hours last week and earned \$112.50. At that rate, how much will she earn if she works for 10 hours?</p>	<p>The proportion of red marbles to blue marbles in a jar is 2 to 5. If there are 35 blue marbles in the jar, how many red marbles are there?</p>
<p>John sells book bags. He sells a leather bag for \$69.80, and the sales tax is 6% of the sale price. About how much is the sales tax on the book bag?</p>	<p>Cody has \$700 in a savings account that pays 4% simple interest. How much will he have in 1 year?</p>

<h2 style="text-align: center;">Wednesday</h2>	<h2 style="text-align: center;">Thursday</h2>																
<p>Karen has $\frac{1}{2}$ cup of sugar. She is baking cookies and needs $1\frac{1}{3}$ cup for a recipe. How much more sugar does she need if she wants to triple the recipe?</p>	<p>Kit bought a soft drink and a sandwich for \$9.00. What was the price of each if the sandwich cost 3.5 times as much as the soft drink?</p>																
<p style="text-align: center;">Solve:</p> $\frac{z}{8} + 2 \geq 3.25$	<p style="text-align: center;">Solve:</p> $9 - 5x > -81$																
<p style="text-align: center;">Write an inequality that represents the graph below:</p> 	<p style="text-align: center;">Solve and graph the inequality on a number line:</p> $-\frac{w}{2} \geq -7$ 																
<p>In a problem from Tuesday “Tim earns \$120 plus \$30 for each lawn he mows. Write an inequality to represent how many lawns he needs to mow to make more than \$310” graph the result on the number line below.</p> 	<p>In the problem to the left, if Tim mows 9 lawns this week, by how much will he have exceeded his goal?</p>																
<p>Max earned \$66 in an 8 hour shift at work. How much does he make per hour?</p>	<p>Stephanie ran four laps around the school track in 7 minutes and 30 seconds. How many seconds per lap is that.</p>																
<p>Which of these tables (if any) represent a proportional relationship?</p> <table border="1" data-bbox="310 1331 565 1394"> <tr><td>x</td><td>4</td><td>5</td><td>6</td></tr> <tr><td>y</td><td>6</td><td>6</td><td>6</td></tr> </table> <table border="1" data-bbox="310 1415 565 1478"> <tr><td>x</td><td>0</td><td>2</td><td>6</td></tr> <tr><td>y</td><td>0</td><td>4</td><td>4</td></tr> </table>	x	4	5	6	y	6	6	6	x	0	2	6	y	0	4	4	<p>What does the point (1,2) represent on the graph?</p> 
x	4	5	6														
y	6	6	6														
x	0	2	6														
y	0	4	4														
<p>Write the equation for the table below?</p> <table border="1" data-bbox="269 1619 602 1692"> <tr><td>(x)</td><td>0</td><td>7</td><td>14</td><td>21</td></tr> <tr><td>(y)</td><td>0</td><td>1</td><td>2</td><td>3</td></tr> </table>	(x)	0	7	14	21	(y)	0	1	2	3	<p>Alex rides 45 miles in 3 hours. Write an equation that shows the relationship between the distance, d and the time, t that he rides if Alex rides at a constant rate of speed?</p>						
(x)	0	7	14	21													
(y)	0	1	2	3													
<p>A salesman priced a four-wheeler at \$3,500 the first day it was on the market. The 2nd day he reduced the price by 10%. What was the new price?</p>	<p>A wrestler competes in 25 matches. Of those matches, he wins 17. What percent of the matches did the wrestler win?</p>																

Monday	Tuesday										
Solve: $-25 + 4h \leq 50.52$	Solve: $42 < 2m - 10$										
Graph the inequality on a number line: $x \leq 4$ 	Write an inequality that represents the graph below: 										
Write an inequality for x that would give this rectangle an area of at least 117 ft^2 . 	In the problem to the left, solve the inequality and represent it on the number line below. 										
A 12 pack of soda is roughly \$3.75. What is the cost per can of soda?	A regular #2 pencil can draw a line about 35 miles long or write roughly 45,000 words. How many words will fit in one mile?										
Which equation(s) represents a proportional relationship? A) $y = 7x^2$ B) $y = 2 + 3x$ C) $y = \frac{1}{2}x$ D) $y = 5 - x$	Circle the graph that represents a proportional relationship. 										
A store buys shirts for \$12 each and marks up the price by 25%. What is the price for a shirt at this store?	Jim borrows \$2,500 from his bank. The loan has a 5.4% annual simple interest rate. If it takes Jim two years to pay back the loan, what is the total amount he will be paying?										
What is the slope between the points $(-5,7)$ and $(4,-8)$?	What is the slope indicated in the table below? <table border="1" data-bbox="964 1549 1328 1625"> <tr> <td>X</td> <td>0</td> <td>1</td> <td>2</td> <td>3</td> </tr> <tr> <td>Y</td> <td>0</td> <td>5</td> <td>10</td> <td>15</td> </tr> </table>	X	0	1	2	3	Y	0	5	10	15
X	0	1	2	3							
Y	0	5	10	15							
What is the slope below? 	Find the missing value so that the two points have a slope of $\frac{-17}{10}$. $(-3,9)$ and $(x, -8)$										

<h2 style="text-align: center;">Wednesday</h2>	<h2 style="text-align: center;">Thursday</h2>										
<p style="text-align: center;">Solve: $8 - 6x > -18$</p>	<p style="text-align: center;">Solve: $12 \geq 9(z + 2)$</p>										
<p style="text-align: center;">Solve and graph the inequality on a number line:</p> <p style="text-align: center;">$42 > g + 27$</p> <p style="text-align: center;"></p>	<p style="text-align: center;">Write an inequality that represents the graph below:</p> <p style="text-align: center;"></p>										
<p>A bowling alley offers unlimited bowling for \$16.00 or charges 3.75 per game. How many games would you need to bowl for the unlimited bowling to be less expensive?</p>	<p>Tim earns \$150/week plus \$15.50 for each desk he assembles. Write an inequality to represent how many desks he needs assemble to make \$400 in one week.</p>										
<p>The rectangular wall below is painted in 15 minutes. How many square feet per minute were painted?</p> <p style="text-align: center;"></p>	<p>In the diagram to the left, how long does it take to paint 1 square foot?</p>										
<p>A car company can make 18 cars in 12 hours. How many cars can be made in 1 hour?</p>	<p>What is the cost of one gallon of gas?</p> <p style="text-align: center;"></p>										
<p>Julio invested \$2,000 in a simple interest account for 3 years. She had earned \$150 in interest by then end. What was the simple interest rate of the account?</p>	<p>Jon makes \$78 in 12 hours of work for his mom. How much would Jon make in 20 hours or work?</p>										
<p>What is the slope between the points (6,-3) and (-2,1)?</p>	<p>What is the slope indicated in the table below?</p> <table border="1" style="margin-left: auto; margin-right: auto;"> <tr> <td>X</td> <td>2</td> <td>4</td> <td>6</td> <td>8</td> </tr> <tr> <td>Y</td> <td>10</td> <td>20</td> <td>30</td> <td>40</td> </tr> </table>	X	2	4	6	8	Y	10	20	30	40
X	2	4	6	8							
Y	10	20	30	40							
<p>What is the slope below?</p> <p style="text-align: center;"></p>	<p>Find the missing value so that the two points have a slope of $\frac{3}{2}$.</p> <p style="text-align: center;">(0,y) and (2, -2)</p>										

Monday

Write an inequality to show how much more needs to be saved to reach \$100

Week	Amount Saved (\$)
0	0
1	20
2	40

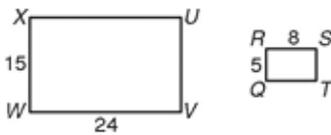
In the problem above, how much money will be saved per year?

At a currency exchange, 11 U.S. dollars can be exchanged for 10 Euros. How many Euros will you receive for 1 U.S. dollar?

What percent of 132 is 40?

What is the slope between the points (5,-7) and (-7,1)?

These rectangles are similar, what is the scale factor?



Solve the proportional equation below:

$$\frac{2}{5} = \frac{8}{a}$$

Solve the proportional equation below:

$$\frac{x+5}{5} = \frac{9}{8}$$

Tuesday

Marisa wants to buy a DVD player that runs for at least \$150. She already saved \$80 and plans to save an additional \$10 each week. Write an inequality that represents this.

Simplify:

$$-\frac{2}{9} \div 3\frac{1}{4}$$

As the same currency exchange as in the problem to the left, how many U.S. dollars will you receive for 1 Euro?

Maria and her sister each have a salad and a drink for lunch at a restaurant. A salad costs \$4.75 and a drink costs \$1.65. What was the total cost of the meal with a 15% tip?

What is the slope indicated in the table below?

X	8	6	4	2
Y	2	4	6	8

The ratio of a model scale die cast motorcycle is 1 : 18. The model is 5.25 inches long. What is the length of the actual motorcycle in feet and inches?

Solve the proportional equation below:

$$\frac{3}{r} = \frac{5}{r+3}$$

Solve the proportional equation below:

$$\frac{3}{m-2} = \frac{7}{m+2}$$

Wednesday

From an earlier problem on Tuesday “Marisa wants to buy a DVD player that runs for at least \$150. She already saved \$80 and plans to save an additional \$10 each week.” Solve this inequality.

> , < , or =

$$-\frac{37}{8} \text{ ——— } - 4.63$$

Find the mean (average) of the data set below?

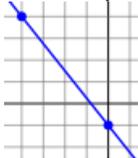
$$\frac{3}{4}, \frac{13}{5}, \frac{14}{10}, \frac{6}{24}$$

18 is what percent of 48?

What is the slope below?



What is the slope below?



Solve the proportional equation below:

$$\frac{9}{r} = \frac{3}{10}$$

Solve the proportional equation below:

$$\frac{9+x}{9} = \frac{7}{3}$$

Thursday

Which store has the lowest price after the discount?

Store	Price	Discount
W-Mart	\$230	12% off
XYZ Sports	\$255	\$50 off
Bike City	\$270	25% off

Simplify

$$3\left(\frac{1}{6} + \frac{2}{9}\right) + (-2)$$

Evaluate the expression.

$$\left(\frac{4}{7} + 8\right) \times (3 - (-4))$$

The cost of a computer is \$849. The store is offering a 20% discount and a sales tax of 6% is added after the discount. What is the total cost of the TV?

Find the missing value so that the two points have a slope of $\frac{2}{7}$.
 $(-1, -1)$ and $(x, 1)$

A gymnasium is 88 feet long and 76 feet wide. On a blueprint, the gymnasium is 5.5 inches long. What is the width of the gymnasium on the blueprint?

Solve the proportional equation below:

$$\frac{1}{5} = \frac{x-9}{x}$$

Solve the proportional equation below:

$$\frac{7}{5} = \frac{a+9}{a-5}$$

Monday**Tuesday**

A TV production warehouse can assemble 120 TV's in 4 hours. How long does it take to make one TV?

Complete the table to make this a proportional relationship.

x	0	2	8	14
y	0	3	12	?

Luisa sells stuffed animals. She sells a stuffed elephant for \$34.90, and the sales tax is 6% of the sale price. About how much is the sales tax on the elephant?

The Ace Motor Co. can assemble 14 cars in 35 minutes at its factory. How many cars can they assemble in 5 hours?

What is the slope between the points (8,-2) and (-7,10)?

What is the slope indicated in the table below?

X	5	10	15	20
Y	7	14	21	28

The ratio of a model car to a regular car is 1:16. The model is 6.25 inches long. What is the length of the actual car in feet and inches?

In the problem to the left, what if the ratio of the model car was 2:35, then what would be the actual length of the car?

Solve the proportional equation below:

$$\frac{7}{5} = \frac{a}{8}$$

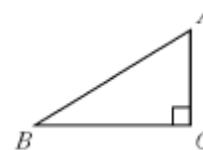
Solve the proportional equation below:

$$\frac{3}{8} = \frac{9}{b+10}$$

The lengths of two sides of a triangle are 4 and 6. Which measurement **cannot** be the length of the third side?

- A) 6 B) 4
C) 3 D) 2

In right triangle $\triangle ABC$, $m\angle A = 29^\circ$. Find $m\angle B$.



What is the shape of the cross section?



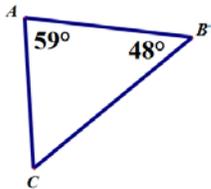
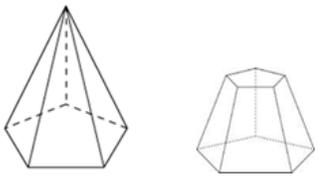
Which of the following is a possible cross section of a rectangular prism?



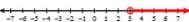
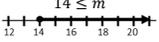
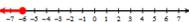
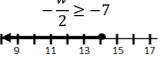
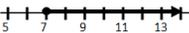
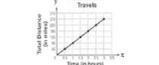
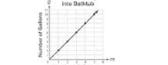
What is the vertical cross section of the prism?



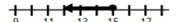
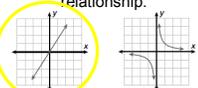
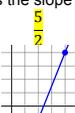
- A) Trapezoid
B) Triangle
C) Rectangle
D) Oval

Wednesday	Thursday										
<p>Solve: $90 \geq -9(w + 3)$</p>	<p>Explain/show why or why not the table below represents a proportional relationship.</p> <table border="1" data-bbox="971 247 1323 325"> <tr> <td>x</td> <td>3</td> <td>5</td> <td>8</td> <td>9</td> </tr> <tr> <td>y</td> <td>17</td> <td>27</td> <td>42</td> <td>47</td> </tr> </table>	x	3	5	8	9	y	17	27	42	47
x	3	5	8	9							
y	17	27	42	47							
<p>Ashley bought 6 yds of ribbon for \$5.28. What ratio is proportional to this?</p> <p>A) $\frac{\\$1.36}{2 \text{ yards}}$ C) $\frac{\\$2.64}{3 \text{ yards}}$</p> <p>B) $\frac{\\$1.92}{3 \text{ yards}}$ D) $\frac{\\$3.25}{4 \text{ yards}}$</p>	<p>Mike is a car salesman. He earns \$200 for every car he sells plus a 3% commission. If Mike sells 3 cars in one week for a total of \$32,343, what are his total earnings for the week?</p>										
<p>What is the slope below?</p> 	<p>Find the missing value so that the two points have a slope of -2. $(1, y)$ and $(6, -5)$</p>										
<p>A circle has a radius of 3 feet. What is the circumference of a bigger circle if the scale factor of the smaller to bigger is 4:7?</p>	<p>In the problem to the left, what would be the ratio of the circumferences from the larger circle to the smaller circle?</p>										
<p>Solve the proportional equation below:</p> $\frac{b}{8} = \frac{b - 8}{10}$	<p>Solve the proportional equation below:</p> $\frac{10}{3} = \frac{n - 1}{n - 4}$										
<p>Draw an obtuse triangle that is also isosceles.</p>	<p>Find $m\angle C$</p> 										
<p>The pyramid below was dissected by a horizontal plane. Which shape describes the pyramid's horizontal cross section?</p> 	<p>What is the shape of a cross section that is parallel to the base of a cylinder?</p> <p>A) rectangle B) triangle C) square D) circle</p> <p>What is the shape of a cross section that is perpendicular to the base of a cylinder?</p> <p>A) rectangle B) triangle C) square D) circle</p>										

Answer Key - Weekly Math Review - Q2:6

Monday	Tuesday	Wednesday	Thursday																
Roxanna earns 1.5 her normal hourly rate for overtime pay. Last week, Roxanna earned \$72.00 in overtime pay for 4 hours. What is Roxanna's normal hourly pay? \$12 per hour	Jan spent the day at the mall. She came home with \$8.25. She spent \$6.25 on earrings and 4 times that amount on a shirt. How much money did she take to the mall originally? \$39.50	Karen has $\frac{1}{2}$ cup of sugar. She is baking cookies and needs $1\frac{1}{3}$ cup for a recipe. How much more sugar does she need if she wants to triple the recipe? 3.5 cups	Kit bought a soft drink and a sandwich for \$9.00. What was the price of each if the sandwich cost 3.5 times as much as the soft drink? Drink: \$2 Sandwich \$7																
Solve: $-5.37 + q \leq 20.63$ $q \leq 26$	Solve: $7 < m - 5$ $m > 12$	Solve: $\frac{z}{8} + 2 \geq 3.25$ $z \geq 10$	Solve: $9 - 5x > -81$ $x < 18$																
Write an inequality that represents the graph below: $x > 3$ 	Graph the inequality on a number line: $14 \leq m$ 	Write an inequality that represents the graph below: $x \leq -6$ 	Solve and graph the inequality on a number line: $-\frac{w}{2} \geq -7$ 																
A child should no longer use a booster seat when they reach 4'9" tall. Janet is 59 inches tall. Can she go without a booster seat? Explain? Yes, 4'11" > 4'9"	Tim earns \$120 plus \$30 for each lawn he mows. Write an inequality to represent how many lawns he needs to mow to make more than \$310. $120 + 30L > 310$	In the problem to the left, solve the inequality and graph the result on the number line below. 	In the problem to the left, if Tim mows 9 lawns this week, by how much will he have exceeded his goal? \$80																
Which has the best unit rate?  Grande 16 oz \$4.25 Venti 20 oz \$4.55	Joe drove 538 miles in 9 hours 15 minutes. What was his average speed per hour? 58.16 mph	Max earned \$66 in an 8 hour shift at work. How much does he make per hour? \$8.25	Stephanie ran four laps around the school track in 7 minutes and 30 seconds. How many seconds per lap is that. 112.5																
Which equation(s) represents a proportional relationship? A) $y = 5 + x$ B) $y = 4x$ C) $y = 7x^2$ D) $y = 2 - x$	What does the point (1,90) represent on the graph?  90 miles per hour	Which of these tables (if any) represent a proportional relationship? Neither <table border="1" data-bbox="571 961 739 993"><tr><td>x</td><td>4</td><td>5</td><td>6</td></tr><tr><td>y</td><td>6</td><td>6</td><td>6</td></tr></table> <table border="1" data-bbox="571 1010 739 1042"><tr><td>x</td><td>0</td><td>2</td><td>6</td></tr><tr><td>y</td><td>0</td><td>4</td><td>4</td></tr></table>	x	4	5	6	y	6	6	6	x	0	2	6	y	0	4	4	What does the point (1,2) represent on the graph?  2 gallons per minute
x	4	5	6																
y	6	6	6																
x	0	2	6																
y	0	4	4																
Maria works as a florist and worked 15 hours last week and earned \$112.50. At that rate, how much will she earn if she works for 10 hours? \$75	The proportion of red marbles to blue marbles in a jar is 2 to 5. If there are 35 blue marbles in the jar, how many red marbles are there? 14	Write the equation for the table below? <table border="1" data-bbox="571 1107 760 1156"><tr><td>(x)</td><td>0</td><td>7</td><td>14</td><td>21</td></tr><tr><td>(y)</td><td>0</td><td>1</td><td>2</td><td>3</td></tr></table> $y = \frac{1}{7}x$	(x)	0	7	14	21	(y)	0	1	2	3	Alex rides 45 miles in 3 hours. Write an equation that shows the relationship between the distance, d and the time, t that he rides if Alex rides at a constant rate of speed? $d = 15t$						
(x)	0	7	14	21															
(y)	0	1	2	3															
John sells book bags. He sells a leather bag for \$69.80, and the sales tax is 6% of the sale price. About how much is the sales tax on the book bag? \$4.18	Cody has \$700 in a savings account that pays 4% simple interest. How much will he have in 1 year? \$728	A salesman priced a four-wheeler at \$3,500 the first day it was on the market. The 2 nd day he reduced the price by 10%. What was the new price? \$3150	A wrestler competes in 25 matches. Of those matches, he wins 17. What percent of the matches did the wrestler win? 68%																

Answer Key - Weekly Math Review - Q2:7

Monday	Tuesday	Wednesday	Thursday																				
Solve: $-25 + 4h \leq 50.52$ $h \leq 18.88$	Solve: $42 < 2m - 10$ $m > 26$	Solve: $8 - 6x > -18$ $x < \frac{13}{3}$	Solve: $12 \geq 9(z + 2)$ $z \leq -\frac{2}{3}$																				
Graph the inequality on a number line: $x \leq 4$ 	Write an inequality that represents the graph below: $x \leq -1$ 	Solve and graph the inequality on a number line: $42 \geq g + 27$ 	Write an inequality that represents the graph below: $x \leq 0$ 																				
Write an inequality for x that would give this rectangle an area of at least 117 ft. ² .  $3x + 15 \geq 117$	In the problem to the left, solve the inequality and represent it on the number line below. 	A bowling alley offers unlimited bowling for \$16.00 or charges 3.75 per game. How many games would you need to bowl for the unlimited bowling to be less expensive? $x > 5$	Tim earns \$150/week plus \$15.50 for each desk he assembles. Write an inequality to represent how many desks he needs assemble to make \$400 in one week. $150 + 15.50x \geq 400$																				
A 12 pack of soda is roughly \$3.75. What is the cost per can of soda? \$0.31	A regular #2 pencil can draw a line about 35 miles long or write roughly 45,000 words. How many words will fit in one mile? About 1286 words	The rectangular wall below is painted in 15 minutes. How many square feet per minute were painted?  6.4	In the diagram to the left, how long does it take to paint 1 square foot? 0.16 minutes or 9.375 seconds																				
Which equation(s) represents a proportional relationship? A) $y = 7x^2$ B) $y = 2 + 3x$ C) $y = \frac{1}{2}x$ D) $y = 5 - x$	Circle the graph that represents a proportional relationship. 	A car company can make 18 cars in 12 hours. How many cars can be made in 1 hour? 1.5	What is the cost of one gallon of gas?  \$2.50																				
A store buys shirts for \$12 each and marks up the price by 25%. What is the price for a shirt at this store? \$15	Jim borrows \$2,500 from his bank. The loan has a 5.4% annual simple interest rate. If it takes Jim two years to pay back the loan, what is the total amount he will be paying? \$2,770	Julio invested \$2,000 in a simple interest account for 3 years. She had earned \$150 in interest by then end. What was the simple interest rate of the account? 2.5%	Jon makes \$78 in 12 hours of work for his mom. How much would Jon make in 20 hours or work? \$130																				
What is the slope between the points (-5,7) and (4,-8) $-\frac{5}{3}$	What is the slope indicated in the table below? <table border="1" data-bbox="1339 1091 1537 1140"><tr><td>X</td><td>0</td><td>1</td><td>2</td><td>3</td></tr><tr><td>Y</td><td>0</td><td>5</td><td>10</td><td>15</td></tr></table> 5	X	0	1	2	3	Y	0	5	10	15	What is the slope between the points (6,-3) and (-2,1) $\frac{1}{2}$	What is the slope indicated in the table below? <table border="1" data-bbox="1789 1091 1978 1140"><tr><td>X</td><td>2</td><td>4</td><td>6</td><td>8</td></tr><tr><td>Y</td><td>10</td><td>20</td><td>30</td><td>40</td></tr></table> 5	X	2	4	6	8	Y	10	20	30	40
X	0	1	2	3																			
Y	0	5	10	15																			
X	2	4	6	8																			
Y	10	20	30	40																			
What is the slope below? 	Find the missing value so that the two points have a slope of $-\frac{17}{10}$. (-3,9) and (x, -8) $x = 7$	What is the slope below? 	Find the missing value so that the two points have a slope of $\frac{3}{2}$. (0,y) and (2, -2) $y = -5$																				

Monday	Tuesday	Wednesday	Thursday																														
<p>Write an inequality to show how much money is needed to reach \$100 $x \geq \\$60$</p> <table border="1"> <thead> <tr> <th>Week</th> <th>Amount Saved (\$)</th> </tr> </thead> <tbody> <tr> <td>0</td> <td>0</td> </tr> <tr> <td>1</td> <td>20</td> </tr> <tr> <td>2</td> <td>40</td> </tr> </tbody> </table> <p>In the problem above, how much money will be saved per year? \$1040</p> <p>At a currency exchange, 11 U.S. dollars can be exchanged for 10 Euros. How many Euros will you receive for 1 U.S. dollar? 0.91</p> <p>What percent of 132 is 40? 30.30</p> <p>What is the slope between the points (5,-7) and (-7,1)? $-\frac{2}{3}$</p> <p>These rectangles are similar, what is the scale factor? $\frac{1}{3}$</p> <p>Solve the proportional equation below: $\frac{2}{5} = \frac{8}{a}$ a = 20</p> <p>Solve the proportional equation below: $\frac{x+5}{5} = \frac{9}{8}$ x = 6.125</p>	Week	Amount Saved (\$)	0	0	1	20	2	40	<p>Marisa wants to buy a DVD player that runs for at least \$150. She already saved \$80 and plans to save an additional \$10 each week. Write an inequality that represents this. $80 + 10x \geq 150$</p> <p>Simplify: $-\frac{2}{9} \div 3\frac{1}{4}$ $-\frac{8}{117}$</p> <p>As the same currency exchange as in the problem to the left, how many U.S. dollars will you receive for 1 Euro? 1.1</p> <p>Maria and her sister each have a salad and a drink for lunch at a restaurant. A salad costs \$4.75 and a drink costs \$1.65. What was the total cost of the meal with a 15% tip? \$14.72</p> <p>What is the slope indicated in the table below? <table border="1"> <thead> <tr> <th>X</th> <th>8</th> <th>6</th> <th>4</th> <th>2</th> </tr> </thead> <tbody> <tr> <th>Y</th> <td>2</td> <td>4</td> <td>6</td> <td>8</td> </tr> </tbody> </table> -1</p> <p>The ratio of a model scale die cast motorcycle is 1:18. The model is 5.25 inches long. What is the length of the actual motorcycle in feet and inches? 7ft 10.5in</p> <p>Solve the proportional equation below: $\frac{3}{r} = \frac{5}{r+3}$ r = 4.5</p> <p>Solve the proportional equation below: $\frac{3}{m-2} = \frac{7}{m+2}$ x = 5</p>	X	8	6	4	2	Y	2	4	6	8	<p>Solve the inequality that you wrote for the problem to the left. $x \geq 7$</p> <p>$>, <, \text{ or } =$ $-\frac{37}{8} - 4.63$ $>$</p> <p>Find the mean (average) of the data set below? $3, 13, 14, 6, 4, 5, 10, 24$ 1.25</p> <p>What is the slope below? $-\frac{4}{5}$</p> <p>What is the slope below? $-\frac{5}{4}$</p> <p>Solve the proportional equation below: $\frac{9}{r} = \frac{3}{10}$ r = 30</p> <p>Solve the proportional equation below: $\frac{9+x}{9} = \frac{7}{3}$ x = 12</p>	<p>Which store has the lowest price after the discount?</p> <table border="1"> <thead> <tr> <th>Store</th> <th>Price</th> <th>Discount</th> </tr> </thead> <tbody> <tr> <td>W-Mart</td> <td>\$230</td> <td>12% off</td> </tr> <tr> <td>XYZ Sports</td> <td>\$255</td> <td>\$50 off</td> </tr> <tr> <td>Bike City</td> <td>\$270</td> <td>25% off</td> </tr> </tbody> </table> <p>Simplify $3(\frac{1}{6} + \frac{2}{9}) + (-2)$ $-\frac{5}{6}$</p> <p>Evaluate the expression. $(\frac{4}{7} + 8) \times (3 - (-4))$ 60</p> <p>The cost of a computer is \$849. The store is offering a 20% discount and a sales tax of 6% is added after the discount. What is the total cost of the TV? \$719.95</p> <p>Find the missing value so that the two points have a slope of $\frac{2}{7}$. (-1, -1) and (x, 1) x = 6</p> <p>A gymnasium is 88 feet long and 76 feet wide. On a blueprint, the gymnasium is 5.5 inches long. What is the width of the gymnasium on the blueprint? 4.75 inches</p> <p>Solve the proportional equation below: $\frac{1}{5} = \frac{x-9}{x}$ a = 11.25</p> <p>Solve the proportional equation below: $\frac{7}{5} = \frac{a+9}{a-5}$ a = 40</p>	Store	Price	Discount	W-Mart	\$230	12% off	XYZ Sports	\$255	\$50 off	Bike City	\$270	25% off
Week	Amount Saved (\$)																																
0	0																																
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XYZ Sports	\$255	\$50 off																															
Bike City	\$270	25% off																															
<p>A TV production warehouse can assemble 120 TV's in 4 hours. How long does it take to make one TV? 2 minutes</p> <p>Luisa sells stuffed animals. She sells a stuffed elephant for \$34.90, and the sales tax is 6% of the sale price. About how much is the sales tax on the elephant? \$2.09</p> <p>What is the slope between the points (8,-2) and (-7,10) $-\frac{4}{5}$</p> <p>The ratio of a model car to a regular car is 1:16. The model is 6.25 inches long. What is the length of the actual car in feet and inches? 9ft 1.375in</p> <p>Solve the proportional equation below: $\frac{7}{5} = \frac{a}{8}$ a = 11.2</p> <p>The lengths of two sides of a triangle are 4 and 6. Which measurement cannot be the length of the third side? A) 6 B) 4 C) 3 D) 2 D) 2</p> <p>What is the shape of the cross section? rectangle</p> <p>What is the vertical cross section of the prism? triangle</p>	<p>Complete the table to make this a proportional relationship. 21</p> <table border="1"> <thead> <tr> <th>x</th> <th>0</th> <th>2</th> <th>8</th> <th>14</th> </tr> </thead> <tbody> <tr> <th>y</th> <td>0</td> <td>3</td> <td>12</td> <td>?</td> </tr> </tbody> </table> <p>The Ace Motor Co. can assemble 14 cars in 35 minutes at its factory. How many cars can they assemble in 5 hours? 120 cars</p> <p>What is the slope indicated in the table below? <table border="1"> <thead> <tr> <th>X</th> <th>5</th> <th>10</th> <th>15</th> <th>20</th> </tr> </thead> <tbody> <tr> <th>Y</th> <td>7</td> <td>14</td> <td>21</td> <td>28</td> </tr> </tbody> </table> $\frac{7}{5}$</p> <p>In the problem to the left, what if the ratio of the model car was 2:35, then what would be the actual length of the car? 9ft 1.375in</p> <p>Solve the proportional equation below: $\frac{3}{8} = \frac{9}{b+10}$ b = 14</p> <p>In right triangle $\triangle ABC$, $m\angle A = 29^\circ$. Find $m\angle B$. 61°</p> <p>Which of the following is a possible cross section of a rectangular prism? A) Trapezoid B) Triangle C) Rectangle D) Oval C) Rectangle</p> <p>The pyramid below was dissected by a horizontal plane. Which shape describes the pyramid's horizontal cross section? pentagon</p> <p>What is the shape of a cross section that is parallel to the base of a cylinder? A) rectangle B) triangle C) square D) circle C) square</p> <p>What is the shape of a cross section that is perpendicular to the base of a cylinder? A) rectangle B) triangle C) square D) circle A) rectangle</p>	x	0	2	8	14	y	0	3	12	?	X	5	10	15	20	Y	7	14	21	28	<p>Solve: $90 \geq -9(w + 3)$ $w \geq -13$</p> <p>Ashley bought 6 yds of ribbon for \$5.28. What ratio is proportional to this? A) $\frac{\\$1.36}{2 \text{ yards}}$ B) $\frac{\\$1.92}{3 \text{ yards}}$ C) $\frac{\\$2.64}{3 \text{ yards}}$ D) $\frac{\\$3.25}{4 \text{ yards}}$</p> <p>What is the slope below? $-\frac{3}{2}$</p> <p>Solve the proportional equation below: $\frac{b}{8} = \frac{b-8}{10}$ b = -32</p> <p>Draw an obtuse triangle that is also isosceles. </p> <p>Find $m\angle C$ 73° </p> <p>Solve the proportional equation below: $\frac{10}{3} = \frac{n-1}{n-4}$ $n = -\frac{37}{7}$</p>	<p>Explain/show why or why not the table below represents a proportional relationship. Explanations will vary</p> <table border="1"> <thead> <tr> <th>x</th> <th>3</th> <th>5</th> <th>8</th> <th>9</th> </tr> </thead> <tbody> <tr> <th>y</th> <td>17</td> <td>27</td> <td>42</td> <td>47</td> </tr> </tbody> </table> <p>Mike is a car salesman. He earns \$200 for every car he sells plus a 3% commission. If Mike sells 3 cars in one week for a total of \$32,343, what are his total earnings for the week? \$1570.29</p> <p>Find the missing value so that the two points have a slope of -2. (1,y) and (6,-5) y = 5</p> <p>In the problem to the left, what would be the ratio of the circumferences from the larger circle to the smaller circle? $\frac{7}{4}$</p>	x	3	5	8	9	y	17	27	42	47
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