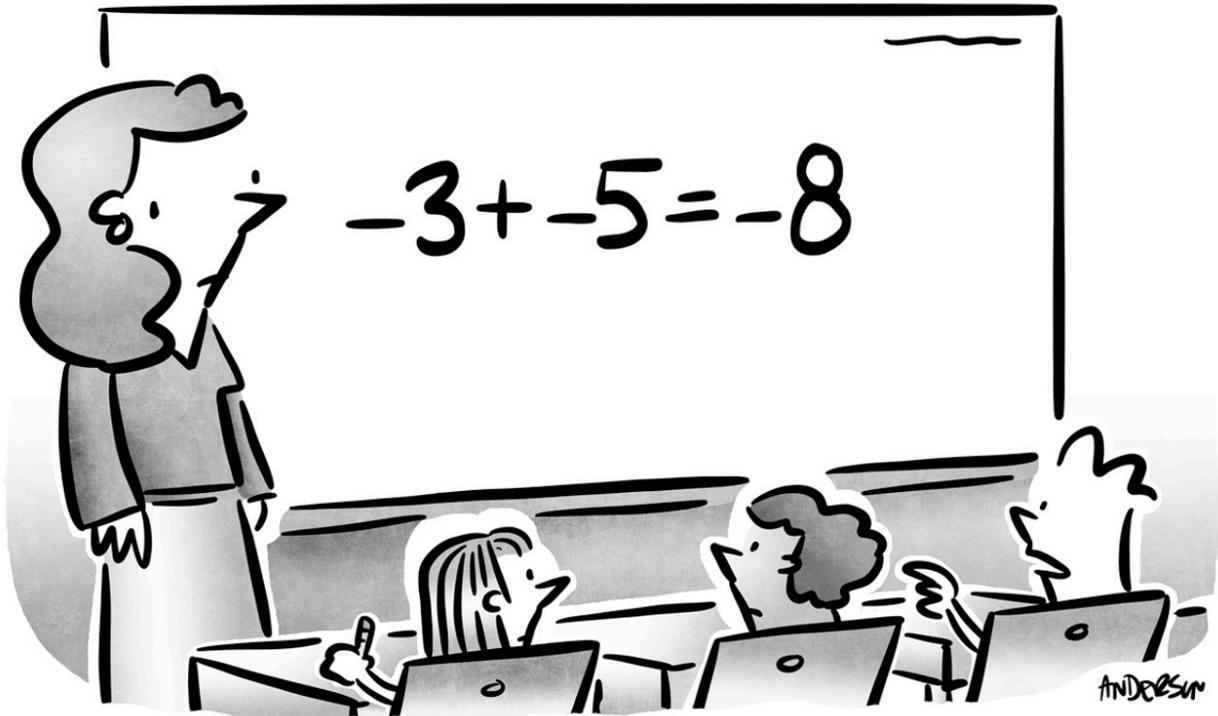


Incoming 7th Grade Honors Math Summer Work

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"So by adding them together we ended up with less than we started with? See, this is why people hate math."

Supplies List:

- 3 Subject Notebook
- Take Home Folder - Math
- Roll of Paper Towels
- Pack of College Ruled Looseleaf

Dear Students and Families,

As we conclude a wonderful school year, I would like to thank you for your hard work, dedication, and the joy you brought to our classroom. I hope that this summer provides you all with the chance to relax, recharge, and spend quality time with friends and family.

To help maintain the progress we've made and prepare for the upcoming school year, I am assigning some summer work. The goal is to keep skills fresh and minds engaged while still allowing for plenty of summer fun.

Summer Work Overview

For Students:

- There is a weekly outline of tasks to complete that includes some spiral review and an IXL skill to work on to obtain a SmartScore of 90 - 100. Please reflect on the weekly work with a Smiley or Frowny face, depending on the difficulty of the work.
- There is a performance task to complete that is grade-appropriate.
- Optional Enrichment - *You can always review your IXL diagnostic recommendations and work on those topics.*

For Parents:

- Encourage a regular routine for light academic work. A little work each week is better than cramming it all in at the beginning or the end of summer.
- Support your child by discussing what they're learning about in math.
- Help set goals or timelines to avoid last-minute stress in August.

Due Date:

Please return all completed summer work on **September 2, 2025**. It will be our starting point for the new school year and it counts toward your first trimester grades.

If you have any questions over the summer, feel free to contact me at coconnor@stisidoreschool.com.

Wishing you a safe, joyful, and restful summer!

Warm regards,
Christine OConnor

Honors Math Teacher

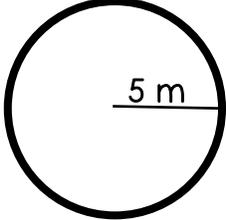
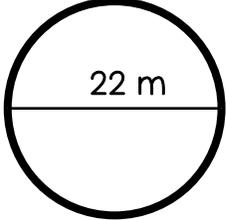
7th Grade Skills

Please complete the assignments each week.

Suggested Date	Assignment	Reflection
June 16 - 20	Week One Worksheet B.14 Add and subtract integers: word problems2DD (7th Grade Skill)	
June 23 - 27	Week Two Worksheet D.9 Add, subtract, multiply, and divide decimals: word problemsTGN (7th Grade Skill)	
June 30 - July 4	Week Three Worksheet E.4 GCF and LCM: word problemsCOV (7th Grade Skill)	
July 7 - 11	Week Four Worksheet G.16 Add, subtract, multiply, and divide fractions and mixed numbers: word problemsKR7 (7th Grade Skill)	
July 14 - 18	Week Five Worksheet P.10 Multi-step problems with percentsZHX (7th Grade Skill)	
July 21 - 25	Week Six Worksheet T.13 Solve equations involving like termsVSW (7th Grade Skill)	
July 28 - Aug 1	Week Seven Worksheet U.6 One-step inequalities: word problems6HD (7th Grade skill)	
August 4 - 8	Week Eight Worksheet W.7 Rate of change: graphsYER (7th Grade Skill)	
August 11 - 15	Week Nine Worksheet BB.7 Circles: word problemsP56 (7th Grade Skill)	
August 18 - 22	Week Ten Worksheet CC.6 Volume of cubes and rectangular prisms: word problems8WV (7th Grade Skill)	
August 25 - 29	Check Over Packet	

Name: _____

SUMMER MATH REVIEW *Week One*

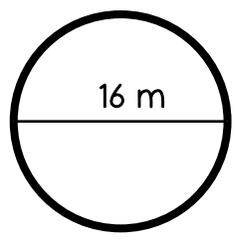
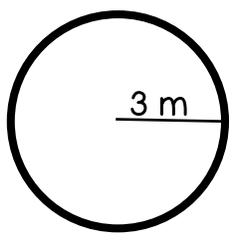
MONDAY	<p>Find the circumference of each figure:</p> <div style="display: flex; justify-content: space-around; align-items: center;"><div style="text-align: center;"><p>A circle with a horizontal radius line from the center to the right edge, labeled "5 m".</p></div><div style="text-align: center;"><p>A circle with a horizontal diameter line across the center, labeled "22 m".</p></div></div>
TUESDAY	<p>Alexa is mixing pink paint. The ratio of white to red paint is 2:5. If she needs 49 quarts of pink paint, how much white paint does she need? How much red paint does she need?</p>
WEDNESDAY	<p>Solve each equation. Show all work.</p> <div style="display: flex; justify-content: space-around; align-items: center;">$x - 12 = -45$$-54 = x + 17$</div>
THURSDAY	<p>What is the mean of the data set below? 16, 14, 29, 11, 18, 22, 20, 20</p>
FRIDAY	<p>Compare each pair of numbers using $<$, $>$ or $=$</p> $-0.7 \quad \underline{\quad} \quad -0.6 \quad -1/2 \quad \underline{\quad} \quad -1/3 \quad -2/5 \quad \underline{\quad} \quad -0.3$

Name: _____

SUMMER MATH REVIEW *Week Two*

MONDAY

Find the area of each figure:



TUESDAY

Decide whether each pair of fractions are proportional.

$$\frac{2}{5}, \frac{5}{10}$$

$$\frac{4}{6}, \frac{8}{12}$$

$$\frac{2}{5}, \frac{3}{15}$$

WEDNESDAY

Solve each equation. Show all work.

$$16x = -448$$

$$\frac{x}{-9} = -18$$

THURSDAY

Find the mean and the median of the data set:

14, 22, 65, 13, 22, 14

FRIDAY

Evaluate each expression.

$$-3 + (-9) =$$

$$-12 + (-29) =$$

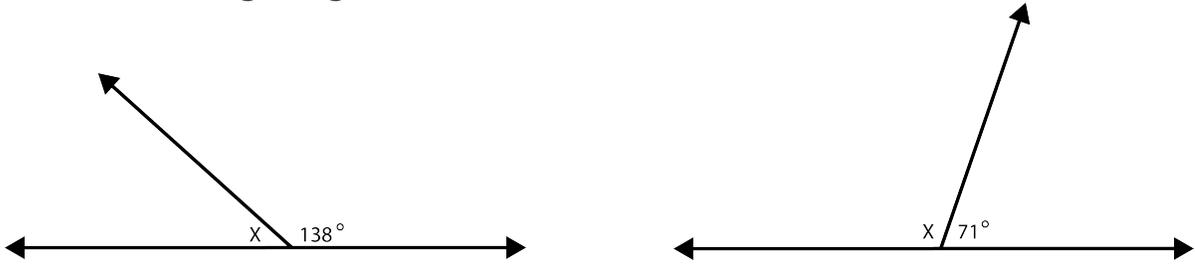
$$-53 + (-42) =$$

Name: _____

SUMMER MATH REVIEW *Week Three*

MONDAY

Find each missing angle:.



TUESDAY

Solve each proportion.

$$\frac{5}{15} = \frac{3}{x}$$

$$\frac{x}{21} = \frac{36}{54}$$

$$\frac{40}{56} = \frac{x}{84}$$

WEDNESDAY

Solve each equation. Show all work.

$$-5x + 16 = 31$$

$$9x - 30 = -51.6$$

THURSDAY

Find the range of each data set.

25, 16, 19, 52, 29

81, 24, 59, 60, 54

0.11, 0.4, 0.25, 0.02, 0.7

FRIDAY

Evaluate each expression.

$$-14 + 8 =$$

$$12 + (-32) =$$

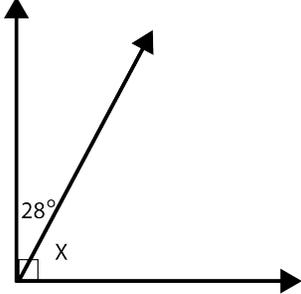
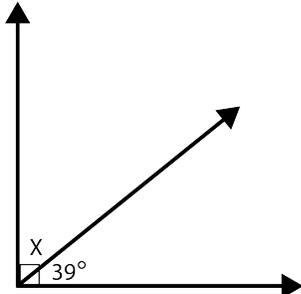
$$-46 + 102 =$$

Name: _____

SUMMER MATH REVIEW *Week Four*

MONDAY

Find each missing angle:



TUESDAY

Use the percent equation ($a = p \cdot w$) to solve each problem. Show all work.

What is 42% of 90?

29.75 is 35% of what number?

WEDNESDAY

Solve each equation. Show all work.

$$\frac{x}{4} - 9 = -12$$

$$\frac{x}{-7} + 26 = -50$$

THURSDAY

Find the Interquartile Range of the data set.

15, 22, 16, 10, 5, 10, 5, 8

FRIDAY

Evaluate each expression.

$$-24 - 16 =$$

$$53 - 98 =$$

$$-45 - (-92) =$$

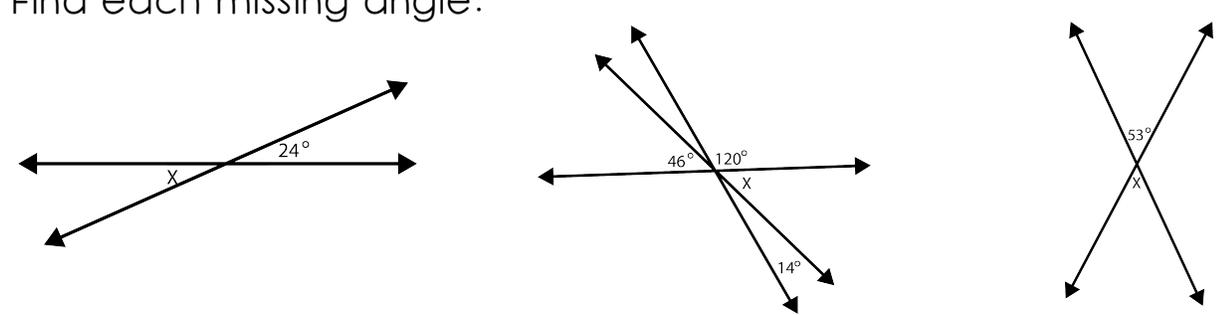
Name: _____

SUMMER MATH REVIEW *Week Five*

MONDAY	<p>Find each missing angle:</p> 		
TUESDAY	<p>Use the percent proportion to solve each problem. Show all work.</p> <table border="1" data-bbox="170 630 1550 903"><tr><td>What is 63% of 98?</td><td>24 is what percent of 150?</td></tr></table>	What is 63% of 98?	24 is what percent of 150?
What is 63% of 98?	24 is what percent of 150?		
WEDNESDAY	<p>Simplify each expression:</p> $-5b + 22b - 2b$ $5(x + 2) - 3x$ $12y - 15y + 14y$		
THURSDAY	<p>Find the Mean Absolute Deviation of the data set. 10, 15, 15, 10, 20</p>		
FRIDAY	<p>Evaluate each expression.</p> $-4(32) =$ $\frac{-49}{-7} =$ $18(-23) =$		

Name: _____

SUMMER MATH REVIEW *Week Six*

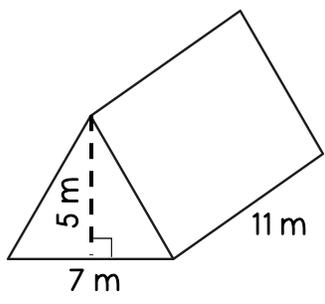
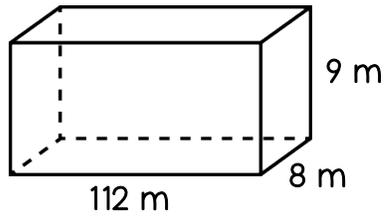
MONDAY	<p>Find each missing angle:</p> 			
TUESDAY	<p>The tax rate where Mason lives is 8.5%. He spends \$24.56 on school supplies. How much is the tax? How much does he pay in all? Round your answer to the nearest cent.</p>			
WEDNESDAY	<p>Simplify each expression:</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%; padding: 10px;">$(2x^2 + 3x + 4) + (5x^2 - 4x + 2)$</td> <td style="width: 50%; padding: 10px;">$(15x + 19) - (22x - 10)$</td> </tr> </table>	$(2x^2 + 3x + 4) + (5x^2 - 4x + 2)$	$(15x + 19) - (22x - 10)$	
$(2x^2 + 3x + 4) + (5x^2 - 4x + 2)$	$(15x + 19) - (22x - 10)$			
THURSDAY	<p>This summer it was over 90° for 25% of the days in July. Describe the likelihood of the temperature being over 90° . Describe the likelihood of the temperature being below 90°.</p>			
FRIDAY	<p>Evaluate each expression when $a = -3$, $b = 6$ and $c = -4$</p> <table style="width: 100%; text-align: center;"> <tr> <td style="width: 33%;">$3a + 2b$</td> <td style="width: 33%;">$a + b - c$</td> <td style="width: 33%;">$5c - 2a$</td> </tr> </table>	$3a + 2b$	$a + b - c$	$5c - 2a$
$3a + 2b$	$a + b - c$	$5c - 2a$		

Name: _____

SUMMER MATH REVIEW *Week Seven*

MONDAY

Find the volume of each figure:



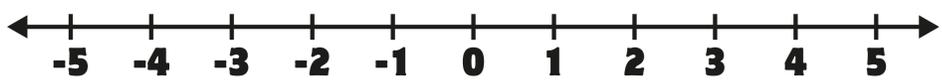
TUESDAY

Daisy's bill at the restaurant is \$46.50. She wants to leave a 20% tip. How much is the tip?

WEDNESDAY

Solve and graph the inequality.

$$x - 5 \geq -6$$



THURSDAY

Miles makes 15 out of 20 free throws. If the trend continues, what is the probability that Miles will make a free throw?

FRIDAY

Write each fraction as a decimal. Indicate if it is a terminating or repeating decimal.

$$\frac{16}{30}$$

$$\frac{12}{40}$$

Name: _____

SUMMER MATH REVIEW *Week Eight*

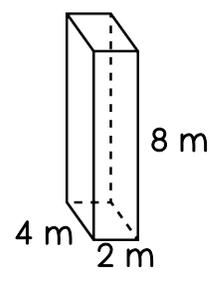
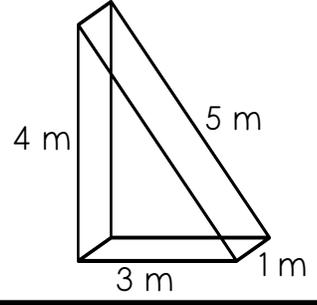
MONDAY	<p>Find the volume of each figure:</p> <div style="display: flex; justify-content: space-around;"><div data-bbox="186 273 511 546"><p>A cylinder with a radius of 4 in. and a height of 8 in.</p></div><div data-bbox="876 273 1169 546"><p>A cylinder with a radius of 12 cm and a height of 20 cm.</p></div></div>		
TUESDAY	<p>Find each sale price:</p> <table border="1" style="width: 100%;"><tr><td data-bbox="170 619 852 913">A pair of jeans costs \$45.60. They are 40% off.</td><td data-bbox="860 619 1550 913">A set of headphones cost \$129. They are 30% off</td></tr></table>	A pair of jeans costs \$45.60. They are 40% off.	A set of headphones cost \$129. They are 30% off
A pair of jeans costs \$45.60. They are 40% off.	A set of headphones cost \$129. They are 30% off		
WEDNESDAY	<p>Solve and graph the inequality. Show all work.</p> $\frac{x}{-1} \leq 3$ <div style="text-align: center;"><p>A number line with arrows at both ends, labeled with integers from -5 to 5.</p></div>		
THURSDAY	<p>There is a $\frac{1}{5}$ chance that a student will be in Mrs. Turner's math class. If there are 30 students in her class, how many students are there in all?</p>		
FRIDAY	<p>Evaluate each expression:</p> $-1.4 + 9.8 = \quad -0.32 + (-0.4) = \quad -\frac{2}{3} + \frac{4}{9} =$		

Name: _____

SUMMER MATH REVIEW *Week Nine*

MONDAY

Find the surface area of each figure:



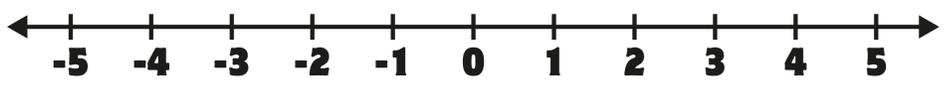
TUESDAY

A store purchases sweaters for \$15 each. The percent markup is 40%. What is the selling price of the sweater?

WEDNESDAY

Solve and graph the inequality. Show all work.

$$-2x + 3 \leq 2$$



THURSDAY

You have shirts that are gray, white and blue. You have pants that are blue, black, white and gray. Find the total number of possible outcomes.

FRIDAY

Evaluate each expression

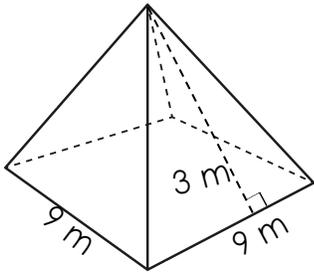
$$-1.25 - 96 =$$

$$-0.3 - (-0.9) =$$

$$-\frac{1}{9} - \frac{3}{8} =$$

Name: _____

SUMMER MATH REVIEW *Week Ten*

MONDAY	<p>Find the surface area of the figure:</p> 			
TUESDAY	<p>Find the slope of the line that passes through each pair of points.</p> <p style="text-align: center;"> $(-9,8)$ and $(-10,9)$ $(-3,4)$ and $(3,4)$ </p>			
WEDNESDAY	<p>Use the distributive property to simplify each expression</p> <table border="1" style="width: 100%; text-align: center;"> <tr> <td style="width: 33%;">$-5(2g - 3h)$</td> <td style="width: 33%;">$\frac{1}{3}(2x - 6y)$</td> <td style="width: 33%;">$1.5(3a - 5b)$</td> </tr> </table>	$-5(2g - 3h)$	$\frac{1}{3}(2x - 6y)$	$1.5(3a - 5b)$
$-5(2g - 3h)$	$\frac{1}{3}(2x - 6y)$	$1.5(3a - 5b)$		
THURSDAY	<p>You roll a 6 sided number cube and flip a coin. What is the probability of rolling a number greater than 2 and flipping a heads?</p>			
FRIDAY	<p>Evaluate each expression</p> <p style="text-align: center;"> $-4.25 \times -10.5 =$ $-\frac{2}{3} \times \frac{3}{4} =$ $-1\frac{1}{5} \div 2\frac{3}{7} =$ </p>			

Student Name _____

Lydia would also like to compete in the same speed texting competition as James. She currently texts at a rate of 4 characters per second, but will only have 10 months to practice before the competition.

3. a. If Lydia wants to text at least 8 characters per second, like James, then the equation $10r + 4 = 8$ could be used to model this situation. Solve this equation for r .

b. Explain what the variable r represents in the equation given in question 3a.

4. Consider the equation $8x + 5 = 37$. Write a real-life scenario that this equation could model.