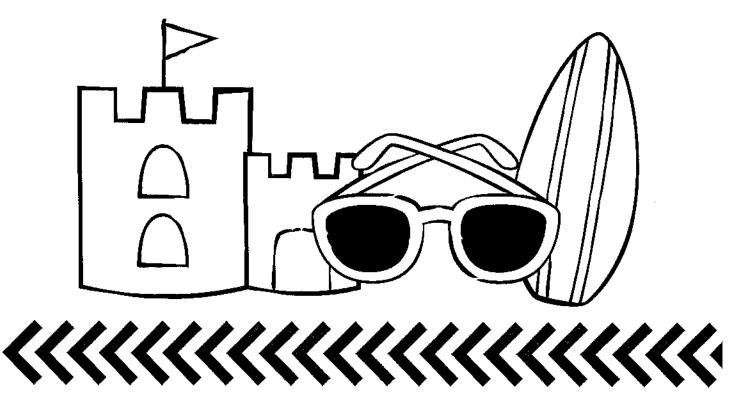


8TH GRADE MATH

Summer Review Packet

NAME:



SUMMER MATH REVIEW Week one

WOMPAY

Evaluate each expression:

$$(-2)^{5}$$

$$\left(\frac{2}{3}\right)^3$$

$$-3^{4}$$

MESONY

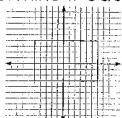
Write each number in standard form:

$$\textbf{4.5} \times \textbf{10}^{-4}$$

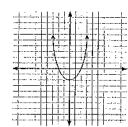
$$3.12 \times 10^9$$

FONESOM

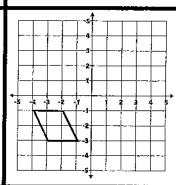
Determine if each graph is a function or not.







THURSOMY



Translate the figure 3 units up and 2 units to the right. What are the coordinates of the image?

Solve each equation. Show all of your work.

$$-5x = 2.25$$

$$-42 = x - 31$$

SUMMER MATH REVIEW Week Two

MOMPAY

Simplify each expression:

 $x^5 \cdot x^3$

 $g^2 \cdot g$

 $x^5 \cdot x^{10}$

MESDAY

Write each number in scientific notation:

3,400,000

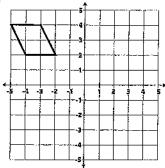
0.00000521

JEDNESDAY

Write the equation represented by the function:

х	У
-1	-1
0	1
1	3

THUBSOMY



Reflect the figure across the y-axis. What are the coordinates of the image?

1

Solve each equation. Show all of your work.

$$3x + 7x = -90$$

-7x - x = -73.6

MONDAY

SUMMER MATH REVIEW Week Three

Simplify each expression		
$x^6 \div x^3$	$h^7 \div h$	$\frac{b^8}{b^7}$

Evaluate each expression:

2.3×10⁵ + 4.1×10⁵

 $2 \times 10^9 - 8 \times 10^5$

Use the graph to write a linear function that relates y to x

THURSONY

Rotate the figure below 90° clockwise about the origin. What are the coordinates of the image?

Solve each equation. Show all of your work.

$$-2(5x+3) = -36$$

$$9(-3x-10)=-495$$

SUMMER MATH REVIEW Week Four

	Simplify each expression:			
MONDAY	$\left(-2^3\right)^4$	$\left(x^4\right)^9$	$\left(g^2\right)^7$	
	[<u>and the first of the first of the second of the second of the first of the second of </u>	<u> Markki, ja sa karangan ang mangangkan kalangga kanangan pangkan ng 10 jilawa sa karan</u>	

TUESDAY

Evaluate each expression:

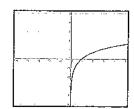
$$(2\times10^2)(6\times10^3)$$

$$(3.5 \times 10^{-4})(2 \times 10^{-3})$$

WEDNESDAY

Determine if the graphs below represent a linear or nonlinear function. Justify your answer.





THURSDAY

The coordinates of a triangle and its image are given below. What is the scale factor?

$$(1,2) \to (3,6)$$

$$(1,4) \rightarrow (3,12)$$

$$(5,3) \rightarrow (15,9)$$

FRIDAY

Solve the equation. Show all of your work.

$$-3x + 14 - 4x = 5x - 9x - 4$$

WEDNESONY

THURSONY

SUMMER MATH REVIEW Week Five

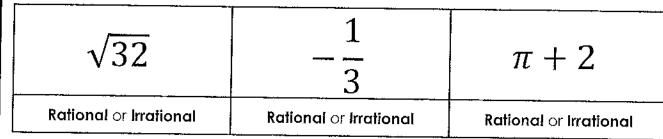
	Simplify each expressio		
WOMOM	$(6x)^3$	$(ab)^3$	$(2ab)^5$
	Evaluate each expression	n.	to the second of

Evaluate each expression:

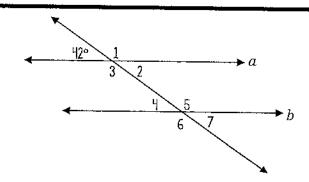
$$(8.1{\times}10^4) \div (2.7{\times}10^{-2})$$

$$\frac{9\times10^5}{3\times10^3}$$

Classify each number as rational or irrational.



Find the missing angles.



Solve each equation in terms of y. Show all work

$$-3y + 6x = 24$$

$$z + 4x - 2y = 9z$$

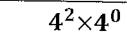
SUMMER MATH REVIEW Week Six

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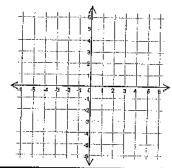
	Simplify	each	expression	ገ:
П		- 0		_

	ONPI	C33	OH	٠
60				



Graph the equation using the table of value

х	y= x-1	У	(x,y)
			
	<u>.</u>		
	·		
ľ			



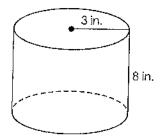
MEDNESONA

Complete the table below. Mark off each subset the number fits in

					
Number	Natural	Whole	Integer	Rational	Irrational
9					
$\sqrt{16}$			-		
$\sqrt{8}$				<u> </u>	

THURSDAY

Find the volume of the cylinder below:

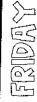




How many solutions does each equation have? Show all work

$$3(2x+2)+3=6x+9$$
 $5x-3=2x+9+3x$

$$5x - 3 = 2x + 9 + 3x$$



SUMMER MATH REVIEW Week Seven

0: 0:0	
I Simplity ec	ach expression and rewrite it with positive exponents.
	ion oppression and rewrite it with hositive exponents
· · · · · · · · · · · · · · · · · · ·	Oxponents.

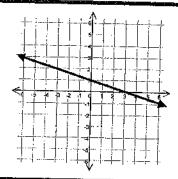
MOMORY

-3 $2b^{-9}$

 $g^2 \div g^8$

TUESONY

Find the slope of the line graphed below:



WEDNESDAY

Write each fraction as a decimal.

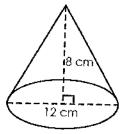
2	
3	

$$-2\frac{1}{4}$$

$$\frac{2}{11}$$

THURSDAY

Find the volume of the cone below:



Solve the systems of equations. Show all work.

$$\begin{cases} x + y = 8 \\ x - y = 4 \end{cases}$$

Nar	me:		
SI	JMMER MA	TH REVIEW	V Week Eight
WINOVAI	Simplify each expression	$(f^3g^2)^{-4}$	$a^2 \times a^{-4}$
TWESDAY	Decide if x and y are directly value of x . $5y = x$	Tectly proportional. If the entire $\frac{1}{3}y = x$	hey are, indicate the $2 + 2y = x$
WEDNESDAY	Estimate √70 to the near	est integer.	
THURSDYL	Find the volume of the sph	nere below:	
FRIONY	Solve the systems of equat	fions. Show all work. $\begin{cases} x + 2y = 6 \\ x - y = 3 \end{cases}$	

SUMMER MATH REVIEW Week Nine

MOMORY

Evaluate each expression.

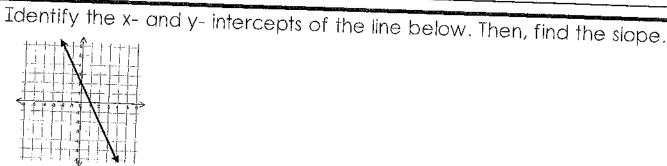
$$\sqrt{121} =$$

$$\pm\sqrt{16} =$$

$$-\sqrt{\frac{4}{25}}=$$

LMESOWY

WEDNESDAY



Compare each pair of numbers using <, > or =

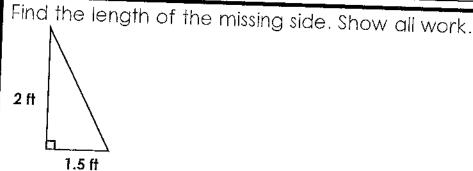
$$\sqrt{8}$$

$$\sqrt{8}$$
 $\bigcirc 2\frac{1}{3}$

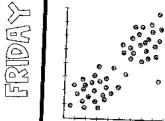
$$-\sqrt{10}$$
 $\bigcirc -\pi$

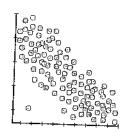
$$-0.25 \bigcirc -\frac{3}{12}$$

THURSON



Identify the relationship between the data sets.





Name:	

SUMMER MATH REVIEW Week Ten

MOMOM

$$\sqrt[3]{-216} =$$

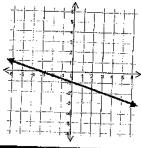
$$\sqrt[3]{\frac{8}{64}} =$$

$$-\sqrt[3]{-27} =$$

TUESPAY

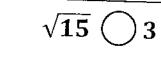
WEDNESOAY

Write an equation of the line in slope-intercept form.



Compare each pair of numbers using <, > or =

Find the distance between (-4,-8) and (6,5).







THURSOMY

Show whether the triangle is a right triangle or not. 18, 80, 81