

Summer Math Calendar



Dear Soon to Be 7th Graders and Parents of Soon to Be 7th Graders,

This summer math calendar has not been created to torture you. It was created with the opposite intent. This was created to make you math aficionados, especially as you prepare to begin math in the seventh grade! To help you do this, I have put together this calendar with math concepts that you have already learned so that your skills are sharp and ready to begin 7th grade math.

Each week you will be assigned five sets of problems to complete. You may choose when to do it. You may work on the calendar in whichever way best suits your style. You may do the problems for the week in one day or you may spend five minutes a day completing each problem. All I ask is that you do not leave the calendar until the week or even the day before school begins. Trust me, you will not complete it! This calendar is meant for you to maintain your skills. You may use siblings, parents, and most importantly your brain to complete the calendar. You must show your work and the work should be done in pencil.

Lastly, please complete the evaluation forms. There is one for you and one for your parents. Good luck! Have a fabulous summer! I cannot wait to see you in the fall!

Sincerely,

7th Grade Math Team

Summer Math Calendar Evaluation for Students



Please rate the following on a scale from 1-10, with 1 being the easiest and 10 being the hardest.

1.) _____ How would you rate the difficulty of the problems in general throughout the summer math calendar?

2.) _____ How would you rate the variety and amount of problems throughout the calendar?

3.) What types of problems in the calendar were the most difficult and why?

4.) What types of problems in the calendar were the easiest and why?

5.) When did you complete the calendar? How did you pace yourself when completing the calendar? (Did you do it every day, once a week, completed it in a few days?)

Thank you for taking the time to complete this evaluation!

Summer Math Calendar Evaluation for Parents



1.) How difficult did you feel this summer math calendar was for your student? Was it too easy or too difficult or somewhere in the middle?

2.) How much help did you give your son or daughter in completing this calendar?

- 3.) What would you say was the best thing about the summer math calendar?
- 4.) What would you say was the most difficult thing about the summer math calendar?

5.) If you could change one thing about the summer math calendar in general, what would you change?

Thank you for taking the time to complete this evaluation!

$\bigtriangledown \land \land \lor $	WeekOne	$\bigvee \triangle \bigvee \triangle \bigvee \triangle \bigvee$
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WeekTwo VAVAV

Problem	Work&Onswer
A season pass to the local waterpark costs \$84. If	
you go to the park ten times during the season,	
what is the unit rate of cost per visit?	
Find the LCM of the following:	
a.) 3 and 8 b.) 9 and 12	
c.) 4 and 6	
, 	
Find each product:	
a.) 13.08 x 0.7 b.) 1.14 x 0.86	
On Thursday the high temperature was 0°C. If it was three degrees colder on Friday, what was the temperature?	
Right before a snow storm the hardware store sold fifteen shovels in sixty minutes. At that rate the store sold a shovel every minutes.	

$\mbox{\label{eq:constraint}}$ WeekThree $\mbox{\label{eq:constraint}}$

Problem	Work&Onswer
Find the GCF of the following: a.) 18 and 24 b.) 12 and 36 c.) 32 and 96	
Phoebe needs to use ¾ cups of sugar to make one batch of cookies. How many batches can she make with 12 cups of sugar?	
Which is colder -3° or -13°? How much colder is that degree?	
Graph the ordered pairs. (-3,-1) (1, -1) (1,5)	
Connect the points in the previous problem. Then find the area of the given figure.	

VAVAV WeekFour VAVAVAV

Pro	oblem					١	work&answer
Find the value of the following:							
a.) 2 ⁴ b.) 4 ³							
C.) 6 ²							
Study the data table whic mean number of laps.	ch shows th	ie numt	per of lap	s each	student ra	n during	the warm up for gym class, then find the
ľ	Student	Jack	Julie	Ben	Beatrice	Carl	
	# of laps	4	7	6	5	8	
Find the absolute value of	feach:						
a.) -8 b.) 8							
Write and solve an ineauc	ality that m	eans a	number	_			
plus four is greater than or	equal to t	welve.					
A box of twelve granola b	bars was \$3	8.60. Wh	nat was	_			
the unit cost per bar?	Ţ.		-				
				_			

∇	eekFive VAVAV
Problem	Work&answer
Evaluate each expression	
a.) 16 + 3 ² x 2	
b.) 2 ³ ÷ 4 + 12	
Find the prime factorization of each: a.) 16 b.) 72	
Using the data plot in the next space, what is the outlier of the data shown?	High Temperatures over the last 10 Days (in degrees Fahrenheit)
Solve for each variable.	
a.) m – 64 = 7 b.) 3r + 2 = 35	
An aquarium's dimensions are $3\frac{1}{4}$ ft x 2ft x $1\frac{3}{4}$ ft. What is the volume of the aquarium?	

Problem	Work&Onswer		
Circle the letter of the survey question that will yield more results. Explain why you choose that question.	a.) What country does each participant live in? b.) What town or city does each participant live in?		
List three solutions for the inequality $x \le 3$ and give three numbers that are not solutions.	Solutions: Not Solutions:		
Circle the expression equivalent to 9x + 36.	a.) 3(x + 9) b.) 9(x + 4)		
Find the mean, median and mode of the below test scores:			
a.) What is the opposite of -7? b.) How many units are -7 and its opposite from zero?			

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Problem	Work&answer
Which expression is equivalent to 56x – 28y + 42?	
a.) 8(7x – 3y + 6) b.) 7(8x + 4y +6z)	
c.) 7(8x – 4y + 6)	
Find the area of the figure. 10.5ft 9ft 7.5ft	
Add or subtract.	
a.) 523.74 + 319.281	
b.) 120.16 + 38.094	
с.) 604.11 – 57.989	
Anna bought a sweater at 40% off the original	
price. If she paid \$12, what was the original price	
of the sweater?	
The area of the garden was $2\frac{2}{5}yd^2$. If the length is $1\frac{1}{2}yd$, find the width.	

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Problem		0	Work&Onswer
Find each quotient. Simplify yo	ur answer.		
a.) $\frac{5}{8} \div \frac{1}{4}$ b.) $3\frac{1}{6}$	$\frac{1}{5} \div \frac{2}{3}$		
What are 3 values of x that will make the inequality true?			
3x + 9 ≤ 30			
Simplify the expression by using the distributive			
property and combining like terms.			
6(3y + 7) + 4(9 + 9y)			
Draw a net to represent the rectangular prism below.			
Then give the surface area of the prism.			
2cm 2cm			
Anna buys 5lbs of pecans for \$19.	Pecans (pounds)	Total Cost	
each amount in the table.	1/2		
	5	\$10.00	
	5	φ17.00	7th Crada Summar Math @ Amy Haara

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Problem	Work&Onswer
Write the coordinate pair for each point on the coordinate plane.	
Find the area and perimeter of the shape above.	
Find each product or quotient. a.) 5.4 ÷ 0.3 b.) 8.7 x 3.9	
The area of the school garden is $31\frac{1}{4}$ ft. If the width is $6\frac{3}{5}$ ft, find the length.	
Find the surface area of triangular pyramid using the net.	

Proble	m		Work&answer
Simplify the expression by comb 14a + 5 + 8a - 3 + 16b	oining like terms.		
Plot the points below on the co A.) A (-3, 3) B(3, 3) B.) Which axis are the points ref	oordinate grid. flected across?		
Complete the table to find]
the values of y.	y = 3x	v v	
	5	13	
	6		
	7		
Entrance to the fair is \$5 but ec	ach ticket for the ride	es t of	
costs x dollars. Write an express 12 ride tickets and entrance co	sion to show the cos ost.		

Name:

7th Grade Summer Math Quiz

Complete the following problems. Use the work page to show your work.

1.) How many faces, edges, and vertices are on a rectangular prism?	2.) Evaluate if a=4 and b=6. 3a – b + 2ab	3.) A 24 pack of soda costs \$6.48. What is the unit rate of cost per can?
4.) The high temperature Monday was -2°C. On Tuesday it was five degrees warmer, what was the high temperature Tuesday?	5.) Find the quotient or product. a.) 27,864 ÷ 25 b.) 15.96 x 0.4	 6.) Which survey question will yield more results? Explain. a.) What school do you attend? b.) What grade are you in?
7.) Write and solve an inequality that means a number plus six is less than or equal to twenty-four.	8.) What is the opposite of 4? How many units is its opposite from zero?	9.) Evaluate: 3 ³ + 6 x 4 – 2
10.) Find the GCF of 42 and 56.	11.) Find the mean of the following low temperatures: 32, 34, 31, 43, 34, 42, 43, 45, 31, 43, 36. (Round to the nearest tenth if necessary)	12.) Rob bought a pair of jeans at 30% off the original price. If the original price was \$55, how much did he pay for the jeans?
13.) Kate has enough fabric to cover 120in ² . Can she completely cover the shape shown by the net? 7.5in	14.) Find the sum: 137.96 + 28.054	15.) Solve for r. 5 + 4r = 57

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Use this space to show your work (if necessary) for each problem.

1.)	2.)	3.)
4.)	5.)	6.)
7.)	8.)	9.)
10.)	11.)	12.)
13.)	14.)	15.)

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