



## Summer Math Learning Packet

### For Students Entering Grade 8

Dear Bayshore Christian Families,

It is important for all students to review math concepts and processes during the summer. Intentional practice of math skills will help students reach mastery of required material and increase their ability to use facts and operations easily and accurately (fluency). There may also be skill areas or knowledge that students need to strengthen (reinforce) or build upon further through enrichment opportunities. Time spent working on mastery, reinforcement and enrichment will greatly benefit all students.

Although these are setup to be used over two months, students can determine their own pacing. There is one problem per day for each of the weekdays during June and July, for a total of just over 40 items. We encourage students to put their answers in a notebook.

Students should bring their completed work back to school with them in August.

Please turn in your calendar to your eighth grade math teacher by August 14<sup>th</sup>.

The problems in this packet were completed by

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Student Name

For online math resources and iPad apps, read on!

Below is a list of websites to keep your mind fresh mathematically over the summer. Try to visit them daily or weekly so that you are ready to go in August!

- Khan Academy  
[www.khanacademy.org/](http://www.khanacademy.org/)  
With a library of over 3000 videos covering everything from arithmetic to physics, finance, and history and hundreds of skills to practice, we're on a mission to help you learn what you want, when you want, at your own place.
- Kuta Software  
[www.kutasoftware.com/](http://www.kutasoftware.com/)  
Software for math teachers that creates exactly the worksheets you need in a matter of minutes. Try for free. Available for Pre-Algebra, Algebra 1, Geometry, and Algebra 2.
- AAA Math & Purple Math  
[www.aaamath.com/](http://www.aaamath.com/) & [www.purplemath.com/](http://www.purplemath.com/)  
These two sites feature comprehensive sets of interactive mathematics lessons. Practice is available on most topics, which allows for thorough mastery of the concepts.
- Cool Math 4 Kids  
[www.coolmath.com/](http://www.coolmath.com/)  
This fully interactive site and allows the user to sharpen basic math skills, play games and explore new math concepts. And it's not just fun and games! There are lessons, printable materials, and a math dictionary that extend into high school material.
- Math is Fun  
[www.mathsisfun.com/](http://www.mathsisfun.com/)  
Lessons, animations and explanations on just about any middle school and high school math topic you could need!
- FunBrain  
[www.funbrain.com/](http://www.funbrain.com/)  
FunBrain is the #1 site for online educational games for kids of all ages. (math, grammar, science, spelling, and history)
- Math Playground - Online Math Games that Give your Brain a Workout [www.mathplayground.com/](http://www.mathplayground.com/)  
Action packed site with fun and challenging online math games. Play with numbers and give your brain a workout.

## We got an app for that...

Beat the Computer Your Teacher  
Your Teacher  
24 Game  
Khan Archiver  
Rocket Math  
Graphing Calculator  
BrainPop

Algebra Champ  
Ooops  
Pocket Algebra  
Sushi Monster  
Shuttle Mission Math

And many more!

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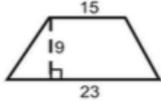
mathematics."

- Paul Halmos

**NOTES:**

Remember to show your work.

**JUNE 2020**

SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
			3 Make a list of all prime numbers between 50 and 75.	4 Simplify: $(2 \times 9) + 400 \div 5 - 5 + 4^3$	5 Find four fractions between $\frac{8}{10}$ and $\frac{5}{4}$	6
7	8 The pages of a book are numbered consecutively from 1 to 275. How many times is the digit 8 used in numbering the pages?	9 Solve for x: $4x - 6 > -10$	10 GCF (18, 36) = GCF (48, 60) =	11 Calculate the volume: Length= 18 cm Width= 12 cm Height= 9 cm	12 What is 75% of 80? What is 10% of 660? 12 is ___% of 15.	13
14	15 Express the fractions $\frac{3}{5}$ and $\frac{9}{5}$ as a decimal and as a percent.	16 Solve for w: $3w + 2 = 20$	17 If the area of a rectangle equals $32\text{cm}^2$ and the width is 2 times the length. Find the width and length of the rectangle.	18 Evaluate: $5.2 \times 6.9 =$ $7.2 \times 2.4 =$ $5.5 - 8.01 =$	19 Find the area of a square with a perimeter measuring 160 cm.	20
21	22 Evaluate: $5/6 \div 2/4 =$	23 What is the value of angle a in a triangle? $\angle a =$ $\angle b = 36^\circ$ $\angle c = 57^\circ$	24 Find the area: 	25 Order the following from least to greatest: $3/7, 43\%, 0.4, 0.04$	26 If 100 gumballs cost \$20, how much would ten gumballs cost?	27

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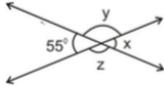
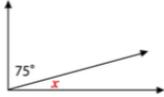
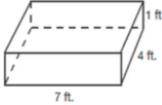
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JULY 2020

SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
28	29 What is the prime factorization of 64?	30 Find the area and the circumference to the nearest tenth. 	1 Find the values of x, y, and z. 	2 Write the rational numbers as decimals. 7/8 -17/40	3 Order the numbers from least to greatest: $3\frac{1}{3}, -\frac{1}{2}, \sqrt{16}, -\sqrt{4}$	4
5	6 Evaluate: $- 3  \cdot -3.4 - 1.5^2$	7 Find the difference: (5x + 6) - (-x + 6)	8 Find the mean score for the following group of math quizzes: 83, 84, 91, 71, 99, 77, 88, 66, 95, 79, 82	9 Solve: $230x(a + 2)$	10 Solve the inequalities: $-15 < 2.5q$ $\frac{x}{-3} > -4$	11
12	13 Write an inequality to represent the statement: The sum of a number and 6 is at least 15.	14 Write the decimals as fractions in simplest form: 0.45, 6.012, -2.32	15 Find the value of x. 	16 Calculate the surface area: 	17 Multiply: $3\frac{1}{6} \times 11\frac{3}{5} =$	18
19	20 Draw a quadrilateral that has only one set of parallel sides.	21 Calculate the volume: 	22 Simplify: $2 + (-3) + [-4(-2+1)] =$ $(-2) + (-3)^2 =$	23 Add: $7\frac{1}{5} + 1\frac{3}{15} =$	24 Evaluate, using n = 9. $\frac{(n)^2}{3}$	25
26	27 Devin bought a roll of ribbon to make bows for his gift boxes. There were 132 inches of ribbon on the roll. How many feet of ribbon was that?	28 Calculate the surface area. 	29 Simplify: $(18 + 12) \times 8 \div (4^2 + 2^2) =$	30 Twice a number (n) minus nine-five. Find the number (n).	31 Solve: $45 \div (-9) =$ $(-105) \div (-15) =$	