



May 2018

Dear StJP II Parents,

Each summer the school requires students to continue to read and practice their math skills, so that knowledge is not lost over the summer. Research has proven that 15-20 minutes of reading each day increases the amount of vocabulary a child learns, which in turn increases comprehension, all resulting in higher academic performance. By reading and reviewing math skills over the summer, teachers spend less time in the fall having to review.

Summer reading consists of two required books and related assignments. The reading assignments will be collected in August when school starts, and teachers will discuss the summer reading in class.

Summer math consists of math pages reviewing skills in preparation for the next school year to be collected in August. In addition, we have provided specific objectives which students in each grade level should practice using IXL software. While there is not a set amount of IXL practice required, the goal is to be proficient in the objectives or skills listed by August to help them have a successful start of the school year.

In Him we Trust,

A handwritten signature in cursive script that reads 'Rebecca Bogard'.

Rebecca Bogard, M.Ed.

Principal

**SUMMER READING PROGRAM 2018-2019**  
**St. John Paul II Catholic School**

Summer reading is an important part of the educational growth of boys and girls. This reading should include pleasure reading and some materials that challenge students as well. Along with required books per grade level listed below, there are activity sheets that accompany these books. Please look for additional links on our website for Reading and Math activities. Required reading books are to be read at any time during the summer. A brief revisit to these books would be in order just before school starts as teachers use these books as the lesson material for the first few weeks of school. It is highly recommended that students have their own copy of the required books for this purpose.

For students who may wish to read more; many other popular books can be found at the HAISLN (Houston Area Independent School Library Network) list as well as others such as Caldecott and Newbery award winners that are available as links on the library resource page of the St. John Paul II Catholic School Website. Encourage your students and take the time to rediscover as a family, favorite childhood books. Additionally, many of the public libraries offer summer activities for all age readers as well. Look on the Library Resources Link on the Library Page for more ideas, activities, tips and hints and much more. Enjoy this valuable time reading with your child. Read every day! Happy Reading ~ Ms. Lamb

**Students entering Pre-K in Fall of 2018 ~ Required read or read along with your child books**

The Kissing Hand by Audrey Penn  
Chicka Chicka Boom Boom by Bill Martin Jr.

**Students entering Kindergarten in Fall of 2018~ Required read or read along with your child books.**

Caps for Sale by Esphyr Slobodkina  
The Very Hungry Caterpillar by Eric Carl

**Students entering 1<sup>st</sup> Grade in Fall of 2018~ Required read or read along with your child books**

Chrysanthemum by Kevin Henkes  
If you give a mouse a cookie by Laura Numeroff

**Students entering 2<sup>nd</sup> Grade in Fall of 2018~ Required 2 books**

Magic Tree House No. 1 - Dinosaurs Before Dark by Mary Pope Osborne  
Amazing Snakes by Sarah L Thomson

**Students entering 3<sup>rd</sup> Grade in Fall of 2018 ~ Required 2 books**

Any one of the "Who WAS..." Biographies by Grosset and Dunlap  
Frecklejuice by Judy Blume

**Students entering 4<sup>th</sup> Grade in Fall of 2018 Required 2 books**

Tales of a Fourth Grade Nothing by Judy Blume  
Charlie and the Chocolate Factory by Roald Dahl

**Students entering 5<sup>th</sup> Grade in Fall of 2018~ Required 2 books**

Flora and Ulysses by Kate DiCamillo  
Frindle by Andrew Clements

**Students entering 6<sup>th</sup> Grade in Fall of 2018~ Required 2 books**

Star Girl by Jerry Spinelli  
Loser by Jerry Spinelli

**Students entering 7<sup>th</sup> Grade in Fall of 2018~ Required 2 books**

Wonder by R J Palacio

**PLUS any ONE** of the following:

Dark Water Rising by Marian Hale

Come Juneteenth by Ann Rinaldi

The adventurous Deeds of Deadwood Jones by Helen Hemphill

**Students entering 8<sup>th</sup> Grade in Fall of 2018 Required 2 books below**

Ingri and Parin D'Aulaire's Book of Greek Myths

**PLUS any ONE** of the following

My Brother Sam is Dead by Collier and Collier

Cast Two Shadows by Ann Rinaldi

A Ride into Morning by Ann Rinaldi

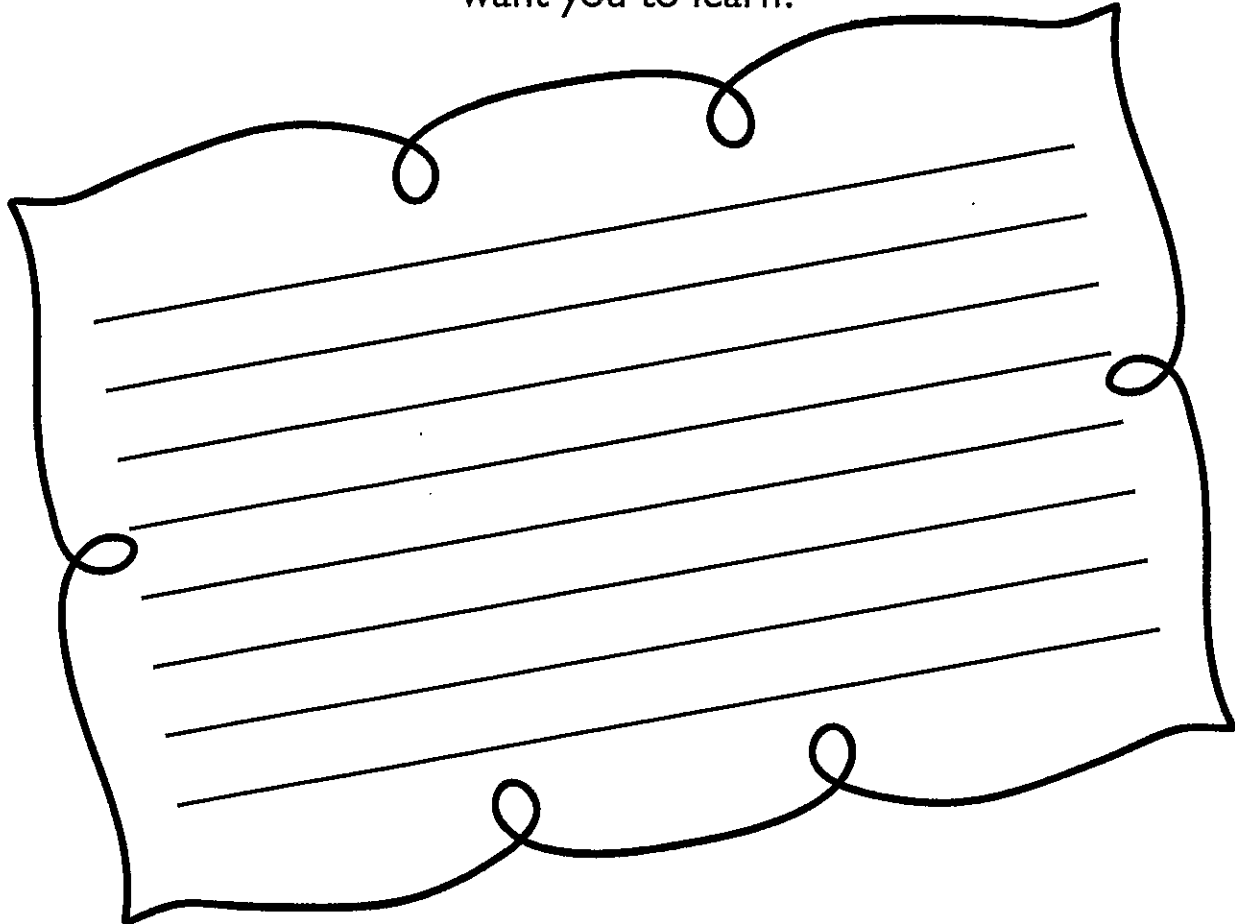
April Morning by Howard Fast

Finishing Becca by Ann Rinaldi

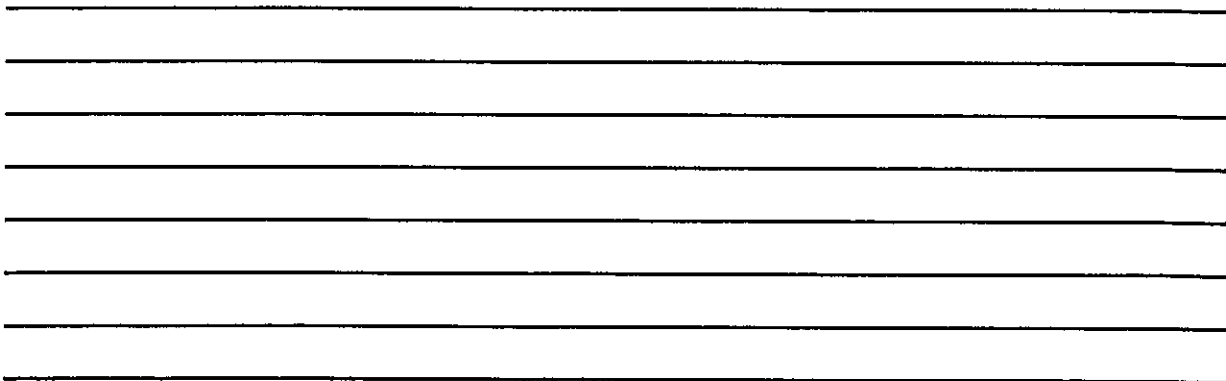
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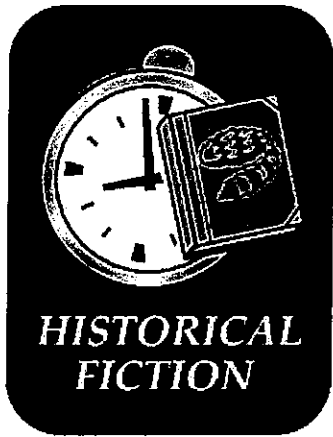
Wonder

After reading Wonder, what do you think the theme of this book is? What lesson does the author want you to learn?



What evidence from the book lets you know that this is the theme? Give a few examples.





Name \_\_\_\_\_ Date \_\_\_\_\_

1. Read ONE of the following books.

*Dark Water Rising* by Marian Hale

*Come Juneteenth* by Ann Rinaldi

*The Adventurous Deeds of Deadwood Jones* by Helen Hemphill

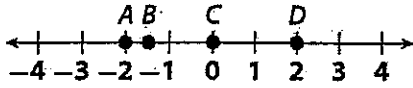
2. On another sheet of paper, write responses to the questions below.

1. Part of understanding a story involves knowing what events are key to the story and which others just help keep the story moving. Pick **one event** from your text that you think is key to the story. **Describe what happened and explain why you feel this event was so important.**
2. Most historical fiction writers do an excellent job of using descriptive language in their writing. Go back into your text and find an example of a part that you thought was so well written that you could easily visualize the scene. **Describe what was happening in this part of the book.**
3. After you finish reading a text, it is a good idea to reflect on the theme or "big idea" you think the author might have wanted you to take away from the book. There are often many "big ideas" in a text. **What is ONE of these "themes" that you think the author would like you to take away from your book? Explain what you will remember from the book and why.**

# 7<sup>th</sup> Grade Math Summer Packet

Directions: Please show all of your work to receive full credit.

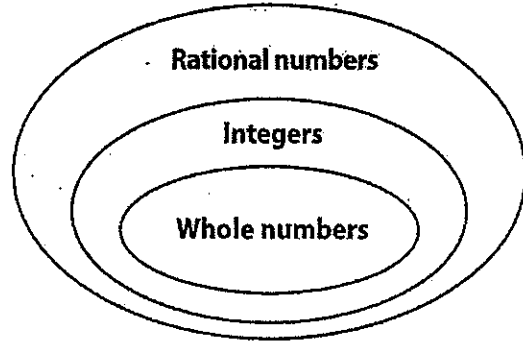
1. Which of the following points is graphed at the opposite of  $-2$  on the number line below?



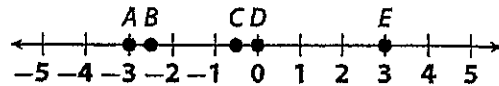
- A A                                    C C  
B B                                    D D
2. Candice recorded outdoor temperatures of  $-5^{\circ}\text{C}$ ,  $-1^{\circ}\text{C}$ , and  $-2^{\circ}\text{C}$ . Which of the following correctly compares the three temperatures?
3. Which of the following pairs shows an integer and its opposite?

- A  $7, -7$   
B  $7, \frac{1}{7}$   
C  $-7, -\frac{1}{7}$   
D  $-\frac{1}{7}, \frac{1}{7}$

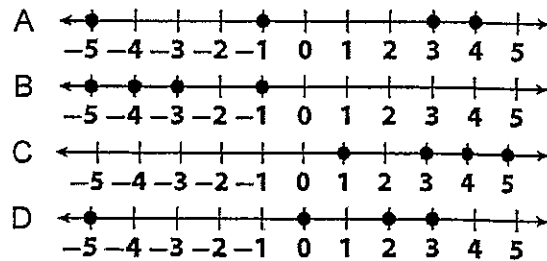
4. To which set or sets below does the number  $-\frac{1}{2}$  belong?



- A whole numbers only  
B rational numbers only  
C integers and rational numbers only  
D whole numbers, integers, and rational numbers
5. Which pair of points graphed below have values that are opposites?



- A A and B  
B B and D  
C C and E  
D A and E
6. Which number line shows the values of  $|1|$ ,  $|-3|$ ,  $|-4|$  and  $|5|$ ?



7. Susie divided a 9-pound bag of apples into 5 equal piles. How many pounds of apples are in each pile?

- A  $\frac{1}{5}$  lb                                    C  $1\frac{4}{5}$  lb  
B  $\frac{5}{9}$  lb                                    D  $1\frac{5}{4}$  lb

# 7<sup>th</sup> Grade Math Summer Packet

8. Stephen's glass holds 450 milliliters of milk. Farrah's glass holds  $\frac{2}{5}$  as much milk. How much milk does Farrah's glass hold?

- A 90 mL                      C 225 mL  
 B 180 mL                     D 360 mL

9. Ethan jogged  $4\frac{1}{3}$  miles. Chloe jogged  $1\frac{1}{4}$  times as far as Ethan did. How many miles did Chloe jog?

- A  $\frac{11}{12}$  mi                      C  $5\frac{5}{12}$  mi  
 B  $4\frac{1}{12}$  mi                     D  $12\frac{1}{3}$  mi

10. Which of the following expressions is equivalent to the expression below?

$$\frac{4}{7} \times \frac{5}{9}$$

- A  $\frac{5}{9} \div \frac{4}{7}$                       C  $\frac{4}{9} \div \frac{5}{7}$   
 B  $\frac{4}{7} \div \frac{5}{9}$                       D  $\frac{4}{7} \div \frac{9}{5}$

11. Leah cut a  $7\frac{1}{2}$ -inch piece of ribbon into pieces that are each  $\frac{3}{4}$  of an inch long. How many pieces of ribbon did she cut?

- A 6 pieces  
 B 9 pieces  
 C 10 pieces  
 D 15 pieces

12. Gabriel drives 80 kilometers in one hour. If he drives at the same speed, how many kilometers can he drive in 3.75 hours?

- A 24.75 km                    C 80.75 km  
 B 30 km                        D 300 km

13. How many 0.4-liter glasses of water are contained in a 5.2-liter pitcher?

- A 1.3 glasses                C 13.4 glasses  
 B 13 glasses                 D 52 glasses

14. Nathan deposited \$300 into his bank account. He then wrote checks for \$50 and \$70. Finally, he deposited \$20 dollars more. Which of the following expressions represents the changes in the value of Nathan's account?

- A  $300 - 50 - 70 + 20$   
 B  $300 - 50 + 70 + 20$   
 C  $300 + 50 - 70 - 20$   
 D  $300 + 50 - 70 + 20$

15. In Evan's math class, there are 17 boys and 21 girls. Which of the following is the ratio of boys to girls in the class?

- A  $\frac{17}{38}$                               C  $\frac{17}{21}$   
 B  $\frac{21}{38}$                               D  $\frac{21}{17}$

16. Sara bought a 16-ounce jar of strawberry jam for \$3.20. What is the unit price?

- A \$0.02/oz                    C \$0.20/oz  
 B \$0.50/oz                    D \$5.00/oz

17. Liam bought 8 quarts of juice at the grocery. How many gallons of juice did he buy?

- A 1 gal                            C 3 gal  
 B 2 gal                            D 4 gal

# 7<sup>th</sup> Grade Math Summer Packet

18. Brandon charges \$8 per hour for babysitting. Debra charges \$9.50 per hour. They both worked for 5 hours. How much more money did Debra earn?

- A \$1.50                      C \$5.50  
 B \$2.50                      D \$7.50

19. The table below shows the number of books on shelves at a library. Which of the following represents the number of books?

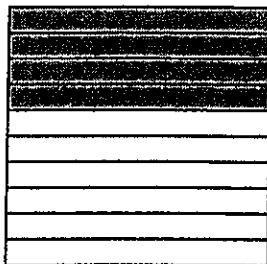
Books	42	63	105	147
Shelves	2	3	5	7

- A shelves  $\times$  3                      C shelves + 28  
 B shelves  $\times$  21                      D shelves + 42

20. On a certain map, 1.25 inches represents 20 miles. Longwood and Milltown are 5 inches apart on the map. What is the actual distance between Longwood and Milltown?

- A 20 mi                      C 80 mi  
 B 25 mi                      D 100 mi

21. What percent of the rectangle below is shaded?



- A 20%                      C 40%  
 B 30%                      D 80%

22. What are all the factors of 18?

- A 1, 2, 3, 6  
 B 2, 3, 6, 9  
 C 1, 2, 3, 6, 9  
 D 1, 2, 3, 6, 9, 18

23. What is the value of the expression below?

$$205 - (7 - 2)^3 \div 5$$

- A 180                      C 40  
 B 36                      D 117

24. Which is a solution of the equation below?

$$m - 9 = 4$$

- A  $m = -5$                       C  $m = 5$   
 B  $m = -13$                       D  $m = 13$

25. What is the solution to the inequality below?

$$-3x < 24$$

- A  $x < 4$   
 B  $x < -6$   
 C  $x > -8$   
 D  $x > -6$



# 7<sup>th</sup> Grade Math Summer Packet

26. Write an algebraic expression for the phrase below.

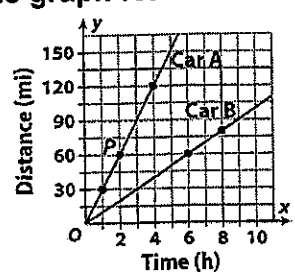
12 less than twice a number  $n$

- A  $12 - n - n$
- B  $2n - 12$
- C  $6 - 2n$
- D  $12n - 2$

27. A student bought a book for \$7.50 and a pen. The total cost was \$9.50. Which of the following equations can be used to find the cost of the pen?

- A  $p = 7.5b$
- B  $p = 9.5b$
- C  $9.50 + p = 7.50$
- D  $7.50 + p = 9.50$

Use the graph for 49–51.



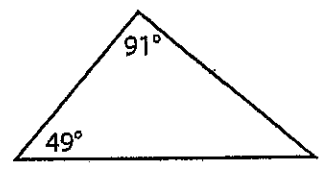
28. What are the coordinates of point  $P$ ?

- A (2, 8)
- B (2, 60)
- C (60, 2)
- D (60, 8)

29. Which equation represents Car B?

- A  $y = 6x$
- B  $y = 10x$
- C  $y = 60x$
- D  $y = 80x$

30. What is the measure of the unlabeled angle in the triangle below?



- A  $38^\circ$
- B  $40^\circ$
- C  $49^\circ$
- D  $89^\circ$

31. An isosceles triangle includes two angles that measure  $63^\circ$ . Which equation can be used to find the measure of the third angle?

- A  $x + 63 = 180$
- B  $180 - 63 = x$
- C  $x = 180 - 2(63)$
- D  $63 + x = 180$

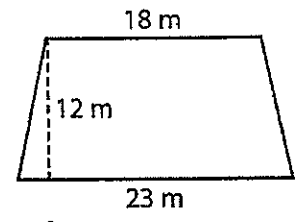
32. A parallelogram has a base of 16 centimeters and a height of 4 centimeters. What is the area of the parallelogram?

- A  $16 \text{ cm}^2$
- B  $32 \text{ cm}^2$

33. A rectangular prism has a volume of 577.2 cubic feet. The prism is 5.2 feet long and 7.4 feet wide. What is the height of the prism?

- A 15 m
- B 39 m
- C 78 m
- D 111 m

34. What is the area of the trapezoid below?



- A  $216 \text{ m}^2$
- B  $246 \text{ m}^2$
- C  $2,484 \text{ m}^2$
- D  $4,968 \text{ m}^2$

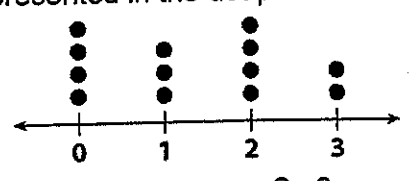
## 7<sup>th</sup> Grade Math Summer Packet

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35. A right triangle has a height of 21 centimeters and a base of 11.6 centimeters. What is the area of the triangle?
- A  $121.8 \text{ cm}^2$                       C  $487.2 \text{ cm}^2$   
B  $243.6 \text{ cm}^2$                       D  $5,115.6 \text{ cm}^2$
36. A lawn in the shape of a trapezoid has an area of 1,833 square meters. The length of one base is 52 meters, and the length of the other base is 42 meters. What is the height of the trapezoid?
- A 35.25 m                              C 43.6 m  
B 39 m                                    D 94 m

# 7<sup>th</sup> Grade Math Summer Packet

37. What is the range of the data represented in the dot plot below?



- A 0
- B 1
- C 2
- D 3

38. What is the median for the data shown in the stem-and-leaf plot below?

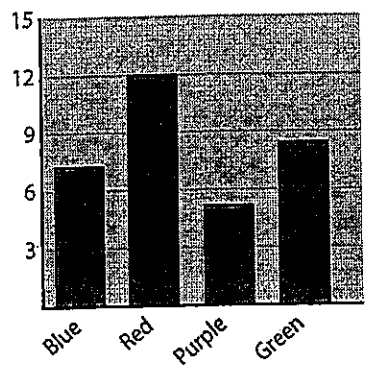
Stem	Leaves
2	1 2 3 4 4 5
3	1 3 5 5 9
4	0 1 2 8 8 9
5	0 1 4 4 7

Key: 2|1 means 21

- A 36.5
- B 39
- C 39.5
- D 40

Use the bar graph for 39.

Students' Favorite Colors



39. What is the mode of the data?

- A blue
- B red
- C purple
- D green

40. Each month Ryan's bank charges a \$5 fee to have a debit card. The bank also charges \$0.30 for each debit card transaction and \$0.40 for each check he writes. In the average month, Ryan uses his debit card 5 times and writes 2 checks. If he switches to a bank that offers debit cards without a monthly fee or a fee per transaction, as well as unlimited checks, how much money would Ryan save each month?

- A \$2.30
- B \$5.70
- C \$7.30
- D \$25.70

41. Emily is attending a university where tuition for one year costs \$16,700. She has a scholarship worth \$2,000 per year. She earns \$1,500 per year at her part-time job. She plans to take out a loan to cover the remaining tuition costs. Tuition will increase by \$200 each year. If she completes college in 4 years, how much money will Emily need to borrow?

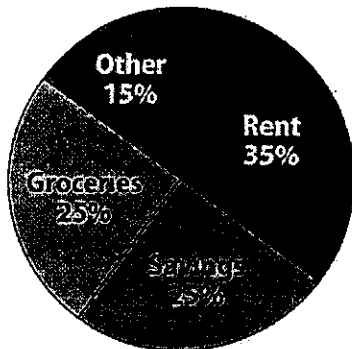
- A \$13,200
- B \$13,500
- C \$53,400
- D \$54,000

42. Aubrey has a checking account at a local bank where the monthly checking fee is \$7 plus \$0.20 for each check she writes. Nonbank ATM withdrawals cost \$1.50. At the beginning of the month, Aubrey's checking account balance was \$520.70. She deposited \$175 and withdrew \$115 in cash from a nonbank ATM. She wrote 2 checks for \$25 each. What is Aubrey's checking account balance at the end of the month?

- A \$521.80
- B \$514.60
- C \$467.90
- D \$435.70

# 7<sup>th</sup> Grade Math Summer Packet

43. Ava's dog weighs 56 kilograms. Marty's dog weighs  $\frac{7}{8}$  as much. How many kilograms does Marty's dog weigh?
44. Hayley cut a  $10\frac{2}{3}$ -foot rope into pieces that are each  $\frac{8}{9}$  of a foot long. How many pieces of rope did she cut?
45. A caterpillar crawls 25 inches in one minute. How many inches can it crawl in 4.5 minutes?
46. Noah bought 5 pounds of onions at \$2 per pound, a bag of salad greens for \$4, and 2 boxes of cereal for \$3 each. How much money did he spend?
47. Oliver's total monthly budget is shown in the circle graph below.



Oliver's monthly budget is \$2,500. How much money does he save each month?

48. Sara bought a 24-ounce can of tomato sauce for \$8.40. What is the unit price?
49. Conrad bought 2 gallons of bottled water at the supermarket. How many cups of water did he buy?

50. The table below shows the fees David charges for yard work.

Hours	2	4	6
Fee (\$)	70	140	210

How much money does David charge for yard work that takes 4.5 hours?

51. Sienna makes \$10.50 per hour. Leo makes \$7.50 per hour. They both worked for 8.5 hours. How much more money did Sienna earn?
52. On a city map, 2.5 inches represents 5 miles. The library and the bank are 3 inches apart on the map. What is the actual distance in miles between the library and the bank?
53. What is the value of the expression below?

$$(7)^3$$

54. Use the order of operations to simplify the expression below.

$$975 \div 3 - (12 - 9)^3$$

55. Evaluate the expression below for  $x = 15$ .

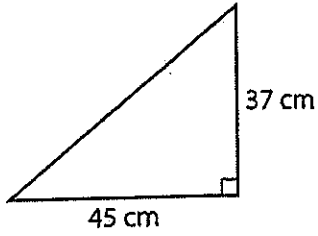
$$5(x + 7)$$

56. A triangle includes angles that measure  $31^\circ$  and  $67^\circ$ . What is the measure of the third angle in degrees?
57. A parallelogram has a base of 45 meters and a height of 11 meters. What is the area of the parallelogram in square meters?
58. A rectangular prism has a volume of 711.68 cubic inches. The prism is 4 inches long and 12.8 inches wide. What is the height of the prism in inches?

# 7<sup>th</sup> Grade Math Summer Packet

Write and mark your answers on the grids provided by your teacher.

59. What is the area in square centimeters of the triangle shown below?



60. A triangle has an area of 227.04 square inches. The length of the base of the triangle is 47.3 inches. What is the height of the triangle?

**St. John Paul II Catholic School**  
**IXL Math Practice - Summer 2018**

Dear StJP II Family,

Each summer we recommend that our students practice their math skills. In the chart below is a list by grade level of the concepts for further practice using the IXL math software online at **[www.ixl.com/signin/johnpaul](http://www.ixl.com/signin/johnpaul)**. *IMPORTANT: The grade levels indicated on the left hand side of this column are for the grade levels they will be **entering in the fall**.*

Grade level students are <b>entering in the fall of 2018</b>	Concepts to practice and review for the 2018-2019 school year:
Incoming 1st graders	Addition and subtraction facts to 12; place values (ones, tens)
Incoming 2nd graders	Addition and subtraction facts to 18; place value (ones, tens, hundreds)
Incoming 3rd graders	Addition and subtraction facts through 20; place value (ones, tens, hundreds, thousands); addition and subtraction problems with regrouping (up to three digits).
Incoming 4th graders	Multiplication and division facts memorized through 9's; place value (ones, tens, hundreds, thousands, ten-thousands) addition and subtraction problems with regrouping (up to four digits)
Incoming 5th graders	Multiplication and division facts memorized through 12's; fractions (equivalent, simplest form, mixed numbers, improper); addition and subtraction of fractions with like denominators; division of whole numbers with one and two digit divisors
Incoming 6th graders	Addition, subtraction, multiplication of decimals, fractions and mixed numbers; order of operations; exponents; mean, median, mode and range; solve problems related to area and perimeter
Incoming 7th graders	Computation and word problems for fractions and decimals; word problems for percents and money
Incoming 8th graders	Computation and word problems for fractions, decimals, and integers; all skills associated with percents and proportions