

## **Summer Math 2019 Students Entering 7<sup>th</sup> Grade**

Dear 6th Grade Students and Families:

Although there are many areas where students need development and exposure, the math department has identified Fraction & Decimal Computation, Algebra & Patterns, Probability, Data & Statistics, Geometry & Measurement, Percents, Equations and Substitution as the main target areas for students to work on. All students are expected to have a general understanding of these concepts to be successful in math next year. Students who enter the 7th grade without competency with these skills will have significant difficulty being successful in 7th grade math.

This packet consists of 14 double-sided pages. Two double-sided sheets need to be completed each week. Students may use a calculator **ONLY** on the pages with a calculator symbol. This packet will be checked during the first week of school and they will be tested on this material during the first weeks of school in September. The Kahn Academy website (<https://www.khanacademy.org/math/cc-sixth-grade-math>) also has excellent resources for remediation, practice and extension.

We encourage you to keep math in the forefront of your thinking this summer. In your travels, look for patterns, bake a cake, or estimate the cost of groceries. Enjoy your summer, get some well-deserved rest, and think math! It's all around us!

Sincerely,

Suzanne Raskin & Valia Bourmpoula



# Level 6 (Course 1) – Summer Math Packet

## Answer Key

Page 2

Answer	I got it on the 1 <sup>st</sup> try!	I got it with corrections.	I have no idea.
1. $x + \frac{1}{2}$			
2. $x - 0.7$			
3. $0.21 - x$			
4. $x + 46$			

Page 3

Answer	I got it on the 1 <sup>st</sup> try!	I got it with corrections.	I have no idea.
1. 165			
2. 108			
3. 24			
4. 75			
5. 18			
6. 61			

Page 4

Answer	I got it on the 1 <sup>st</sup> try!	I got it with corrections.	I have no idea.
1. 95			
2. 43			
3. 7			
4. 256			
5. 8			
6. <del>468</del>			

Page 5

Answer	I got it on the 1 <sup>st</sup> try!	I got it with corrections.	I have no idea.
1. $g = 7$			
2. $s = 41$			
3. $m = 7$			
4. $k = 14$			
5. $w = 15.75$			
6. $g = 53.5$			

Page 6

Answer	I got it on the 1 <sup>st</sup> try!	I got it with corrections.	I have no idea.
1. $x = 9$			
2. $k = 72$			
3. $b = 0.71$			
4. $h = 38.85$			
5. $m = 7.06$			
6. $p = 34.71$			

## Level 6 (Course 1) – Summer Math Packet

Page 7

Answer	I got it on the 1 <sup>st</sup> try!	I got it with corrections.	I have no idea.
1. 17.5			
2. 36 cm <sup>2</sup>			
3. 121 cm <sup>2</sup>			
4. 169 cm <sup>2</sup>			
5. Milk Chocolate: 2 Mean: 36, Yellow Cake: 3 Mean: 38.5, Dark Chocolate: 1 Mean: 34, White Cake: 4 Mean: 40.5			
6. 50 ft			

Page 8

Answer	I got it on the 1 <sup>st</sup> try!	I got it with corrections.	I have no idea.
1. 432 cm <sup>3</sup>			
2. 3213 cm <sup>3</sup>			
3. 46,475 cm <sup>3</sup>			
4. 46,725 cm <sup>3</sup>			
5. 9,072 in <sup>3</sup>			
6. 16 in high, 11 in wide, 5 in long, 880 in <sup>3</sup>			

Page 9

Answer	I got it on the 1 <sup>st</sup> try!	I got it with corrections.	I have no idea.
1. 500 cm <sup>2</sup>			
2. 276 cm <sup>2</sup>			
3. 604 cm <sup>2</sup>			
4. 252 cm <sup>2</sup>			
5. 133 ft <sup>2</sup>			
6. 1197 ft <sup>2</sup>			

Page 10

Answer	I got it on the 1 <sup>st</sup> try!	I got it with corrections.	I have no idea.
1. 9 cm			
2. 15 cm			
3. 44 cm			
4. 51 cm			
5. No			
6. 319 ft longer			

## Level 6 (Course 1) – Summer Math Packet

Page 11

Answer	I got it on the 1 <sup>st</sup> try!	I got it with corrections.	I have no idea.
1. 9 cm			
2. 13 cm			
3. 18 cm			
4. 15 cm			
5. 21 ft			
6. 86 mm			

Page 12

Answer	I got it on the 1 <sup>st</sup> try!	I got it with corrections.	I have no idea.															
1. <table border="1" style="margin-left: 20px;"> <tr> <td>North</td> <td>    </td> <td>8</td> </tr> <tr> <td>South</td> <td>      </td> <td>6</td> </tr> <tr> <td>East</td> <td>      </td> <td>6</td> </tr> <tr> <td>West</td> <td>    </td> <td>4</td> </tr> </table>	North		8	South		6	East		6	West		4						
North		8																
South		6																
East		6																
West		4																
2. <table border="1" style="margin-left: 20px;"> <tr> <td>Pizza</td> <td>    </td> <td>8</td> </tr> <tr> <td>Taco</td> <td>      </td> <td>6</td> </tr> <tr> <td>Hamburger</td> <td>    </td> <td>4</td> </tr> <tr> <td>Hot Dog</td> <td>  </td> <td>2</td> </tr> <tr> <td>Chicken</td> <td>    </td> <td>4</td> </tr> </table>	Pizza		8	Taco		6	Hamburger		4	Hot Dog		2	Chicken		4			
Pizza		8																
Taco		6																
Hamburger		4																
Hot Dog		2																
Chicken		4																

Page 13

Answer	I got it on the 1 <sup>st</sup> try!	I got it with corrections.	I have no idea.
1a. 10			
1b. 30			
1c. 0, 4, 3, 2, 1			
2a. 5			
2b. 14			
2c. Vanilla & Chocolate Chip			

## Level 6 (Course 1) – Summer Math Packet

Page 14

Answer	I got it on the 1 <sup>st</sup> try!	I got it with corrections.	I have no idea.
<del>1. Mean: 5 Median: 5 Mode: 6 Range: 7</del>			
1. Mean: 5 Median: 5 Mode: 6 Range: 7			
2. Mean: 13 Median: 13 Mode: 7 Range: 14			
3. Mean: 30 Median: 30 Mode: 32 Range: 22			
4. Mean: 143 Median: 148 Mode: 157 Range: 33			

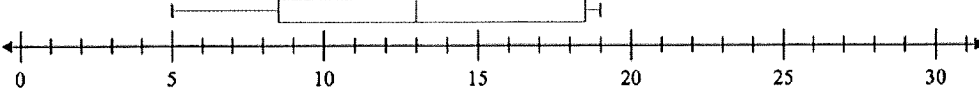
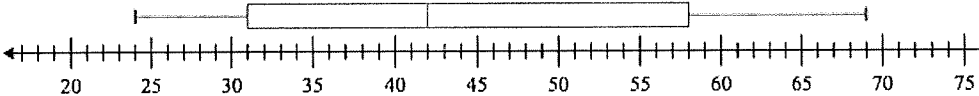
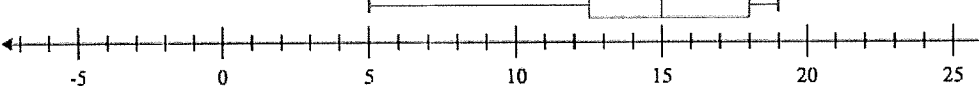
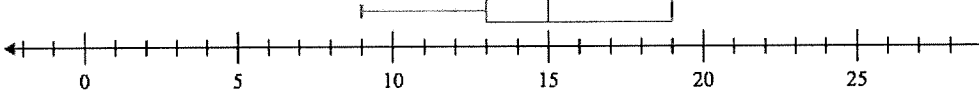
★ See the next page for answers to pages 14 b and 14c. ★

Page 15

Answer	I got it on the 1 <sup>st</sup> try!	I got it with corrections.	I have no idea.
1. 75			
2. -15			
3. -10			
4. 290			
5. -3			
6. -12			

Page 16

Answer	I got it on the 1 <sup>st</sup> try!	I got it with corrections.	I have no idea.
1. 0.95			
2. 0.875			
3. 0.1875			
4. 0.675			
5. 0.75			
6. 0.6			

Answer	I got it on the first try!	I got it with corrections	I have no idea
1. 19, 13, 12, 19, 9, 5, 13, 18, 8 Min=5 Max=19 q1=8.5 Q2=13 q3=18.5 			
2. 69, 32, 49, 24, 58, 29, 54, 66, 35, 31 Min=24 Max=69 q1=31 Q2=42 q3=58 			
3. 16, 18, 13, 15, 19, 12, 15, 18, 5 Min=5 Max=19 q1=12.5 Q2=15 q3=18 			
4. 9, 13, 19, 16, 14, 19 Min=9 Max=19 q1=13 Q2=15 q3=19 			

Answer	I got it on the first try!	I got it with corrections.	I have no idea.
1. 3.75			
2. $15\frac{1}{3}$			
3. 14%			
4. 127.2			

pg 30a

## Level 6 (Course 1) – Summer Math Packet

Page 17

Answer	I got it on the 1 <sup>st</sup> try!	I got it with corrections.	I have no idea.
1. 85%			
2. $\frac{21}{25}$			
3. 75%			
4. $\frac{9}{10}$			
5. 96%			
6. $\frac{39}{50}$			

Page 18

Answer	I got it on the 1 <sup>st</sup> try!	I got it with corrections.	I have no idea.
1. $\frac{4}{5}$			
2. $\frac{5}{6}$			
3. $\frac{2}{3}$			
4. $\frac{4}{1}$			
5. $\frac{1}{2}$			
6. $\frac{9}{11}$			

Page 19

Answer	I got it on the 1 <sup>st</sup> try!	I got it with corrections.	I have no idea.
1. $\frac{2}{3}, \frac{3}{4}, \frac{5}{6}$			
2. $\frac{3}{4}, 0.75, 0.8$			
3. $\frac{3}{5}, \frac{7}{10}, \frac{5}{6}$			
4. $\frac{1}{5}, 0.25, \frac{3}{10}$			
5. $\frac{1}{2}, \frac{5}{9}, \frac{5}{6}$			
6. $\frac{24}{25}$			



## Level 6 (Course 1) – Summer Math Packet

Page 20

Answer	I got it on the 1 <sup>st</sup> try!	I got it with corrections.	I have no idea.
1. 1			
2. $\frac{7}{24}$			
3. $4\frac{1}{8}$			
4. $2\frac{1}{30}$			
5. $4\frac{1}{4}$			
6. $12\frac{1}{4}$			

Page 21

Answer	I got it on the 1 <sup>st</sup> try!	I got it with corrections.	I have no idea.
1. $\frac{5}{12}$			
2. $\frac{3}{5}$			
3. $3\frac{1}{2}$			
4. $7\frac{1}{2}$			
5. $6\frac{3}{10}$			
6. $5\frac{1}{4}$			

Page 22

Answer	I got it on the 1 <sup>st</sup> try!	I got it with corrections.	I have no idea.
1. 0.6			
2. 15.18			
3. 0.24			
4. 39.45			
5. \$16.79			
6. \$106.50			

Page 23

Answer	I got it on the 1 <sup>st</sup> try!	I got it with corrections.	I have no idea.
1. 3.125			
2. 6.424			
3. 21.5			
4. 0.375			
5. \$5.30			
6. \$0.59			

## Level 6 (Course 1) – Summer Math Packet

Page 24

Answer	I got it on the 1 <sup>st</sup> try!	I got it with corrections.	I have no idea.
1. 13			
1. 60			
2. 5			
3. 3.5			
4. 50			
5. \$2.49			

Page 25

Answer	I got it on the 1 <sup>st</sup> try!	I got it with corrections.	I have no idea.
1. 12			
2. 4			
3. 30			
4. 91			
5. \$120.00			
6. \$36.00			

Page 26

Answer	I got it on the 1 <sup>st</sup> try!	I got it with corrections.	I have no idea.
1. 5.9			
2. 3.1			
3. 2			
4. 7.3			
5. \$5.80			
6. \$2.90			