

4th Grade Summer Mathematics Review #1

Name: _____

1. How many sides does each polygon have? A. Pentagon _____ B. Nonagon _____ C. Octagon _____ D. Quadrilateral _____	2. What is the rule for this function machine? _____ <table border="1" data-bbox="992 296 1279 506"> <thead> <tr> <th>IN</th> <th>OUT</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>5</td> </tr> <tr> <td>2</td> <td>9</td> </tr> <tr> <td>4</td> <td>17</td> </tr> <tr> <td>6</td> <td>25</td> </tr> <tr> <td>10</td> <td>41</td> </tr> </tbody> </table>	IN	OUT	1	5	2	9	4	17	6	25	10	41		
IN	OUT														
1	5														
2	9														
4	17														
6	25														
10	41														
3. List all of the factors of each number. 24: _____ 32: _____ What is the Greatest Common Factor (GCF) of 24 and 32? _____	4. If you flip a coin 20 times, about how many times would you expect the coin to land heads up? _____ times Check your prediction. Try it and record your data.														
5. A family hiked 2.16 miles on the first day of their hiking trip, 3.07 miles the second, and 4.89 miles on the third day. How many miles did they hike in all?	6. Solve. $\frac{\quad}{12} = \frac{1}{4}$														
7. What is the product? _____ 58×189	8. Subtract. $1.16 - 0.78 =$														
9. Illustrate each: a. intersection of two lines b. parallel lines c. perpendicular lines	10. The average daily temperature of second week in March is listed below. Use a sheet of paper to construct a line graph using this information. Title and label your graph. <table data-bbox="1101 1612 1295 1843"> <tbody> <tr> <td>Sun.</td> <td>67</td> </tr> <tr> <td>Mon.</td> <td>84</td> </tr> <tr> <td>Tues.</td> <td>73</td> </tr> <tr> <td>Wed.</td> <td>80</td> </tr> <tr> <td>Thurs.</td> <td>68</td> </tr> <tr> <td>Fri.</td> <td>72</td> </tr> <tr> <td>Sat.</td> <td>75</td> </tr> </tbody> </table>	Sun.	67	Mon.	84	Tues.	73	Wed.	80	Thurs.	68	Fri.	72	Sat.	75
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4th Grade Summer Mathematics Review #2

Name: _____

1. Round to the nearest ten thousand. 5,483,978 _____	2. Write the missing numbers.
3. Identify the statement that represents the fraction $\frac{3}{12}$. A. 3 minus 12 B. 3 divided by 12 C. 12 divided by 3	4. Solve: 6,003 - 768 = _____
5. A lion's heart beats 85 times in 6 minutes. What is the approximate rate per minute? _____	6. How many line segments are necessary to a. draw a triangle _____ b. draw a hexagon _____ c. draw a quadrilateral _____
7. Write the following number in word form: 2,805, 730 _____ _____ _____	8. Andy wants to buy a new paint set that costs \$27.95. He has 2 ten-dollar bills, 1 five-dollar bill, 1 one-dollar bill, 3 quarters, 10 dimes, and 3 pennies. Does he have enough money to buy the paint set? _____ How much change will he receive OR how much more money does he need? _____
9. Write an equivalent fraction for each fraction below. Then write the original fractions in order from least to greatest. $\frac{3}{4} = \underline{\hspace{1cm}}$ $\frac{5}{8} = \underline{\hspace{1cm}}$ $\frac{1}{2} = \underline{\hspace{1cm}}$	10. When you roll a die, do you have the same chance of getting a 6 as you do as getting a 3? Explain. _____

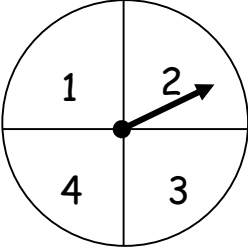
4th Grade Summer Mathematics Review #3

Name: _____

1. What is the value of the underlined digit? <u>6</u>78,342	2. Complete the pattern. 1, 1, 2, 3, 5, _____, _____, _____																															
3. Solve. $\frac{5}{12} + \frac{1}{3} =$	4. Fill in the blanks. 5 kilograms = _____ grams 12 pounds = _____ ounces 32 ounces = _____ pounds																															
5. Put the fractions in order from least to greatest. $\frac{3}{4}$ $\frac{1}{3}$ $\frac{1}{2}$ $\frac{5}{12}$ _____, _____, _____, _____	6. If a can is 8 in. tall and holds 1 qt. of liquid when it's full, how many pints are there if the can is only $\frac{1}{2}$ full?																															
7. Complete the table. <table border="1" style="margin: 10px auto; border-collapse: collapse; text-align: center;"> <tr> <td>9</td><td>5</td><td>15</td><td>8</td><td>11</td><td>13</td><td>100</td></tr> <tr> <td>↓</td><td>↓</td><td>↓</td><td>↓</td><td>↓</td><td>↓</td><td>↓</td></tr> <tr> <td>45</td><td>25</td><td>75</td><td></td><td></td><td></td><td></td></tr> </table> What is the function rule?	9	5	15	8	11	13	100	↓	↓	↓	↓	↓	↓	↓	45	25	75					8. Construct a bar graph using the following data. Use another sheet of paper. Title and label your graph. <table style="margin-top: 20px; margin-left: auto; margin-right: auto;"> <thead> <tr> <th style="text-align: left;"><u>Planet</u></th> <th style="text-align: left;"><u>Length of Year in Earth Days</u></th> </tr> </thead> <tbody> <tr> <td>Mercury</td> <td>88</td> </tr> <tr> <td>Venus</td> <td>225</td> </tr> <tr> <td>Earth</td> <td>365</td> </tr> <tr> <td>Mars</td> <td>687</td> </tr> </tbody> </table>	<u>Planet</u>	<u>Length of Year in Earth Days</u>	Mercury	88	Venus	225	Earth	365	Mars	687
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9. Fill in the blanks. 6 feet = _____ yards 600 centimeters = _____ meters _____ inches = 5 feet	10. Write <u>four</u> equivalent fractions for $\frac{1}{3}$.																															

4th Grade Summer Mathematics Review #4

Name: _____

1. Jessica drew this pattern: △ △ ○ ○ □ □ If she made 6 rows of this pattern, how many circles did she draw?	2. Draw a line segment and label it JR.
3. What is the probability of the spinner landing on the number 4? 	4. Estimate. Show how you rounded the numbers. $\begin{array}{r} 3172 \\ + 5496 \\ \hline \end{array}$
5. Write these fractions as decimals. a. $\frac{3}{10} = \underline{\hspace{2cm}}$ b. $\frac{26}{100} = \underline{\hspace{2cm}}$	6. Draw two different polygons that contain parallel sides.
7. Solve. $0.75 + 0.07 =$	8. Fill in the blanks. _____ cups = 1 gallon _____ cups = 1 pints _____ quarts = 1 gallon _____ pints = 1 quart
9. Solve. $\frac{3}{4} = \frac{?}{12}$	10. Complete the pattern. 1, 8, 3, 10, 5, 12, _____, _____, _____, _____ Explain the pattern.

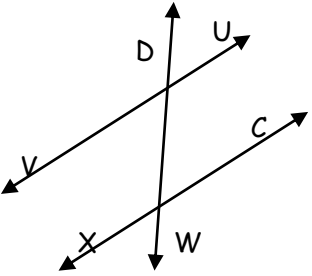
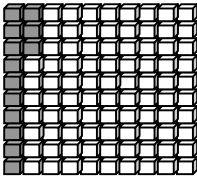
4th Grade Summer Mathematics Review #5

Name: _____

1. A theater sold 819 tickets for 3 performances of a play. The same number of people saw each show. How many people saw the first two performances of the play?	2. Write an equivalent fraction for each. a. $\frac{1}{5} = \underline{\hspace{2cm}}$ b. $\frac{2}{4} = \underline{\hspace{2cm}}$ c. $\frac{3}{8} = \underline{\hspace{2cm}}$																
3. <u>School Populations</u> 476 students 237 students 84 students 593 students a. How many students attend the three most populated schools? b. How many students attended the least populated school?	4. Round to the nearest hundredth. 847.9648 _____																
5. Draw two line segments parallel to each other. Label your line segments.	6. Complete and describe the pattern. 3, 7, 6, 5, 9, 8, 7, 11, _____, _____, 13																
7. Is it equally likely or not equally likely that a flipped coin will land on heads or tails? Circle one: equally likely not equally likely	8. Follow the function rule to complete the table. 12 ÷ 4 → 3 <table border="1" style="width: 100%; text-align: center; border-collapse: collapse;"> <tr> <td style="padding: 5px;">IN</td> <td style="padding: 5px;">12</td> <td style="padding: 5px;">8</td> <td style="padding: 5px;">16</td> <td style="padding: 5px;">24</td> <td style="padding: 5px;">20</td> <td style="padding: 5px;">32</td> <td style="padding: 5px;">36</td> </tr> <tr> <td style="padding: 5px;">OUT</td> <td style="padding: 5px;"></td> <td style="padding: 5px;"></td> <td style="padding: 5px;"></td> <td style="padding: 5px;"></td> <td style="padding: 5px;"></td> <td style="padding: 5px;"></td> <td style="padding: 5px;"></td> </tr> </table>	IN	12	8	16	24	20	32	36	OUT							
IN	12	8	16	24	20	32	36										
OUT																	
9. Fill in the missing numbers. 500 520 540 _____ _____ _____ 620	10. Which is heavier, an object weighing 67 ounces or an object weighing 4 pounds? Explain your answer.																

4th Grade Summer Mathematics Review #6

Name: _____

1. Kyle ran the race in 9.24 seconds. Joel ran the race in 9.45 seconds. Who won, and by how much?	2. Name the parallel lines in this figure. 
3. Madeline has \$0.63 in quarters, dimes, nickels, and pennies. She has 9 coins in all. What are they?	4. Write the decimal equivalent. a. $\frac{1}{2}$ = _____ (decimal) b. $\frac{6}{100}$ = _____ (decimal)
5. Write the decimal represented on the decimal square. _____ 	6. A car can travel 25 miles on a gallon of gas. How many miles can it travel with 15 gallons of gas?
7. Fill in the missing numbers. Describe the pattern. 3, 6, 9, _____, 15, 18	8. Write a number that comes between 8,140 and 8,150.
9. Round each decimal 1.45 to the nearest tenth _____ 3.807 to the nearest hundredth _____ 6.873 to the nearest whole _____	10. Circle the best unit of length to measure the height of a door: A. inches B. feet C. miles

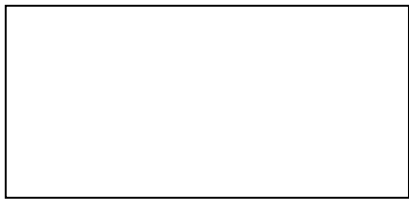
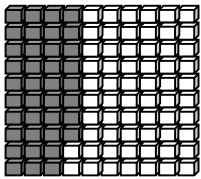
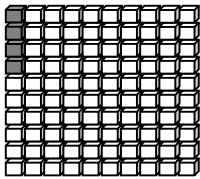
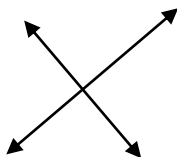
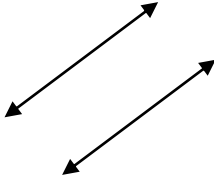
4th Grade Summer Mathematics Review #7

Name: _____

1. Estimate the sum. Explain. $376 + 2094 + 96 =$	2. Draw an angle. Name your angle.										
3. Measure the line segment below to the nearest centimeter and to the nearest inch. C  D a. _____ cm. b. _____ in.	4. What is the Least Common Multiple (LCM) of 12 and 5?										
5. If 59 students want to go on a rafting trip, and each raft holds 6 people, how many rafts will be needed?	6. How are lines and line segments different?										
7. Compare. Use $>$, $<$, or $=$. $\frac{5}{9}$  $\frac{2}{3}$ Which fraction is larger?	8. The following numbers of hot lunches were sold recently at one school. Construct a line graph to show this information. Use another sheet of paper. Title and label your graph. <u>School lunches sold each day</u> <table> <tbody> <tr> <td>Monday</td> <td>12</td> </tr> <tr> <td>Tuesday</td> <td>4</td> </tr> <tr> <td>Wednesday</td> <td>8</td> </tr> <tr> <td>Thursday</td> <td>8</td> </tr> <tr> <td>Friday</td> <td>18</td> </tr> </tbody> </table>	Monday	12	Tuesday	4	Wednesday	8	Thursday	8	Friday	18
Monday	12										
Tuesday	4										
Wednesday	8										
Thursday	8										
Friday	18										
9. Solve. $4,685 - 194 =$	10. Which expression would NOT make the equation true? $8 \times 6 =$ _____ A. 3×14 B. 12×4 C. 16×3										

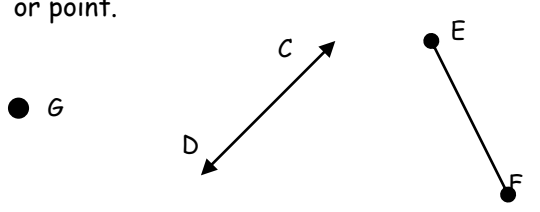
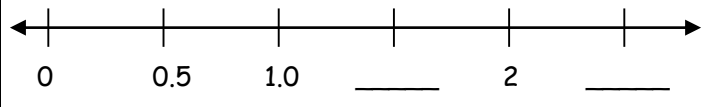
4th Grade Summer Mathematics Review #8

Name: _____

1. Shade $\frac{1}{4}$ of the rectangle. 	2. Write the decimal.   a. _____ b. _____
3. Write as a decimal: seventeen and forty-one thousandths _____	4. There are 12 colored blocks in a bag: 5 blue, 1 white, 3 yellow, and 3 red. a. What is the probability that someone will choose a blue block? b. What is the least likely color to be chosen?
5. Circle the picture that shows perpendicular lines.  A  B	6. Estimate by rounding to the nearest hundred. Show your work. 12,846 - 3467
7. Compare. Use $>$, $<$, or $=$. A. 0.61 B. 0.7 a. Which decimal is larger? _____ b. How much larger is it? _____	8. Which blanket requires a longer piece of cloth for trim, one that is 5 ft. by 5ft. or one that is 6 ft. by 3 ft? Show how you know.
9. In one week, a grocery store sold 12,587 gallons of milk. How much more is this than the 3,509 gallons that were sold in another store?	10. Extend and describe the pattern. □ ○ □ ○ □ ○ □ — —

4th Grade Summer Mathematics Review #9

Name: _____

1. a. Write an equivalent fraction for $\frac{2}{5}$. _____ b. Write a decimal equivalent to $\frac{1}{4}$. _____	2. Write a name for the figure: line, line segment, or point.  a. _____ b. _____ c. _____												
3. Compare. Write $>$, $<$, or $=$. a. $\frac{3}{5}$ ○ $\frac{1}{5}$ b. $\frac{3}{4}$ ○ $\frac{5}{8}$ c. $\frac{3}{6}$ ○ $\frac{1}{2}$ Which fraction used above is the greatest of all six? _____	4. Solve. $12,468 + 3,406 =$ _____												
5. A fourth grade class of 27 students at Dickinson Elementary is going on a field trip to the museum. Each car will take 5 students. How many cars are needed?	6. Write the missing numbers on the number line. 												
7. Use the information to construct a bar graph on another sheet of paper. Title and label your graph. <table border="1" style="margin-left: auto; margin-right: auto; border-collapse: collapse; text-align: center;"> <thead> <tr style="background-color: black; color: white;"> <th style="padding: 5px;">Name of Diamond</th> <th style="padding: 5px;">Size</th> </tr> </thead> <tbody> <tr> <td style="padding: 5px;">Koh-i-nor diamond</td> <td style="padding: 5px;">109 carats</td> </tr> <tr> <td style="padding: 5px;">Hope diamond</td> <td style="padding: 5px;">45 carats</td> </tr> <tr> <td style="padding: 5px;">“Star of Africa”</td> <td style="padding: 5px;">530 carats</td> </tr> <tr> <td style="padding: 5px;">Regent or Pitt</td> <td style="padding: 5px;">140 carats</td> </tr> <tr> <td style="padding: 5px;">Uncle Sam diamond</td> <td style="padding: 5px;">40 carats</td> </tr> </tbody> </table>	Name of Diamond	Size	Koh-i-nor diamond	109 carats	Hope diamond	45 carats	“Star of Africa”	530 carats	Regent or Pitt	140 carats	Uncle Sam diamond	40 carats	8. Solve. $0.78 + 1.2 =$ _____
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Uncle Sam diamond	40 carats												
9. Fill in the blanks. _____ mm = 1 cm 200 cm = _____ meters 5,000 mm = _____ meters	10. Round 12.572 to the nearest tenth.												

4th Grade Summer Mathematics Review #10

Name: _____

1. Solve for n. $15 + (35 + 16) = (15 + 35) + n$	2. What fraction can you add to $\frac{4}{7}$ to get a sum of one?																
3. Fill in the blanks to make each equation true. A. $(8 + 5) + 7 = 8 + (\quad + 7)$ B. $(3 \times 4) \times 5 = \quad \times (4 \times 5)$ C. $12 \times (3 \times 2) = (12 \times \quad) \times 2$	4. Choose the best unit of weight to measure the items below: oz., lb., or t. a. a butterfly _____ b. a bicycle _____																
5. Perryville Metro can carry up to 865 people every five minutes. What is the maximum number of people it can carry in a two-hour period?	6. Follow the function rule to complete the table. <table border="1" style="margin-left: auto; margin-right: auto; text-align: center; border-collapse: collapse;"> <tr> <td style="padding: 5px;">IN</td> <td style="padding: 5px;">12</td> <td style="padding: 5px;">14</td> <td style="padding: 5px;">11</td> <td style="padding: 5px;">16</td> <td style="padding: 5px;">18</td> <td style="padding: 5px;">15</td> <td style="padding: 5px;">17</td> </tr> <tr> <td style="padding: 5px;">OUT</td> <td style="padding: 5px;">3</td> <td style="padding: 5px;">5</td> <td style="padding: 5px;"></td> <td style="padding: 5px;"></td> <td style="padding: 5px;"></td> <td style="padding: 5px;"></td> <td style="padding: 5px;"></td> </tr> </table>	IN	12	14	11	16	18	15	17	OUT	3	5					
IN	12	14	11	16	18	15	17										
OUT	3	5															
7. Write a decimal and fraction for the shaded part of this model. _____	8. Cindy saw a newspaper advertisement for King's Cold Cuts. She decided to buy 0.50 lb. of turkey for \$1.70 and 0.74 lb. of cheese for \$2.55. How many pounds of food did she buy? _____																
9. 2,745.045 a. What digit is in the thousands place? _____ b. What digit is in the tenths place? _____	10. I am thinking of two numbers. If you add them you get 15, multiply them you get 36, subtract them you get 9, and divide them you get 4. What are the two numbers?																

Fourth Grade Mathematics Summer Review ANSWER KEY

Review #1 1. A. 5 B. 9 C. 8 D. 4 2. Multiply by 4, add 1 3. 1,2,3,4,6,8,12,24 1,2,4,8,16,32 GCF: 8 4. 10 times, see student work 5. 10.12 miles 6. 3 7. 10,962 8. 0.38 9. answers will vary a)  b)  c)  10. see student work	Review #6 1. Kyle by .21 seconds 2. line VU and line XC 3. 1Q, 2D, 3N, 3P 4. a) 0.5 b) 0.06 5. 0.13 6. 375 miles 7. 12; add 3 8. Any # between 8,140 & 8,150 9. 1.5, 3.81, 7 10. feet
Review #2 1. 5,480,000 2. 49, 53, 57 3. B 4. 5,235 5. 14 to 15 6. a) 3 b) 6 c) 4 7. Two million, eight hundred five thousand, seven hundred thirty 8. no; needs 17¢ 9. see student work; 1/2, 5/8, 3/4 10. yes, there's an equal number of 6's and 3's	Review #7 1. 2,600 (answers will vary) 2.  answers will vary 3. a) 7 cm b) 3 in 4. 60 5. 10 rafts 6. a line continues, a line segment does not 7. < ; 2/3 is larger 8. see student graph 9. 4,491 10. A
Review #3 1. 70,000 2. 8, 13, 21 (sum of 2 previous #s) 3. $9/12 = 3/4$ 4. 5,000 grams 192 ounces 2 pounds 5. $\frac{1}{3}$ $\frac{5}{12}$ $\frac{1}{2}$ $\frac{3}{4}$ 6. 1 pt 7. 40, 55, 65, 500; times 5 8. see student work 9. 2 yards 6 meters 60 inches 10. ex: 2/6, 3/9, 4/12, 5/15	Review #8 1. Ex:  2. a) 0.38 b) 0.04 3. 17.041 4. a) 5/12 b) white 5. A 6. 12,800 - 3,500 = 9,300 7. < ; a) 0.7 b) 0.09 8. 5 ft. by 5 ft.; check student work 9. 9,078 gallons 10.   first 3 symbols repeat
Review #4 1. 12 circles. 2. J  R 3. $\frac{1}{4}$ 4. 3000+5000=8000 5. a) 0.3 b) 0.26 6. see student work Ex:   7. 0.82 8. 16 cups, 2 cups, 4 quarts, 2 pints 9. 9 10. 7, 14, 9, 16; add 7, subtract 5	Review #9 1. ex. a) 4/10 b) 0.25 2. a) point b) line c) line segment 3. a) > b) > c) = ; $\frac{3}{4}$ 4. 15,874 5. 6 cars 6. a) 1.5 b) 2.5 7. see student graph 8. 1.98 9. 10 mm 2 meters 5 meters 10. 12.6
Review #5 1. 546 people 2. ex. a) 2/10 b) 6/12 c) 6/16 3. a) 1,306 b) 84 students 4. 847.96 5. ex.  a b c d 6. 10,9; add 4, subtract 1, subtract 1 7. equally likely 8. 3, 2, 4, 6, 5, 8, 9 9. 560, 580, 600 10. 67 ounces is heavier because 4 lbs. is 64 ounces	Review #10 1. 16 2. 3/7 (or another fraction = to 3/7) 3. A. 5 B. 3 C. 3 4. a) oz. b) lb. 5. 20,760 6. 2, 7, 9, 6, 8 7. 7/10 and 0.7 8. 1.24 pounds 9. a) 2 b) 0 10. 12 and 3

Student's Signature (optional) _____ Date _____