





First Name: _____ Last Name: _____ Grade: _____
 Teacher: _____ Parent's email: _____

Data and Information

Kinder & First Grade: solve at least 3 problems.
Second & Third Grade: solve at least 7 problems.
Fourth Grade and above: solve at least 12 problems.

		<i>Answer</i>																														
1.	<p>Deanna is sorting the following items into the proper basket. How many items belong to the even number basket?</p> <p style="text-align: center;"> 4 5 7 15 8 3 11 10 9 2 </p> <p style="text-align: center;"> Odd: 5, 7, 15, 3, 11, 9 Even: 4, 8, 2, 10 </p> <div style="display: flex; justify-content: space-around; align-items: center;">   </div>	<p>4 [items]</p>																														
2.	<p>The tally chart below shows the number of different fruits students brought for lunch.</p> <p>Fruits Brought for Lunch</p> <table border="1" style="display: inline-table; margin-right: 20px;"> <tr><td>Apples</td><td> </td></tr> <tr><td>Bananas</td><td> </td></tr> <tr><td>Oranges</td><td> </td></tr> <tr><td>Grapes</td><td> </td></tr> </table> <p>a. Which fruit was brought the most? Grapes (7)</p> <p>b. How many apples and bananas were brought altogether? $6 + 3 = 9$</p>	Apples		Bananas		Oranges		Grapes		<p>a. <i>Grapes</i></p> <p>b. <i>9</i></p>																						
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3.	<table border="1" style="display: inline-table; margin-right: 20px;"> <tr><td>Animals</td><td>Tally marks</td></tr> <tr><td>Animals with no legs</td><td> </td></tr> <tr><td>Animals with 2 legs</td><td> </td></tr> <tr><td>Animals with 4 legs</td><td> </td></tr> </table> <p>a. How many animals have no legs? 3 (snail, snake, fish)</p> <p>b. How many animals have 2 legs? 4 (penguin, duck, chicken, ostrich)</p> <p>c. How many animals have 4 legs? 5 (cat, horse, rabbit, dog, cow)</p>	Animals	Tally marks	Animals with no legs		Animals with 2 legs		Animals with 4 legs		<p>a. <i>3</i></p> <p>b. <i>4</i></p> <p>c. <i>5</i></p>																						
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4.	<p>a. What is the total number of red and white flowers in her garden? $5+7=12$</p> <p>b. How many flowers are there in her garden? $5+4+7 = 16$</p>	<p>a. <i>12</i></p> <p>b. <i>16</i></p>																														
5.	<p>Organized the information (by pets: dog, cat, fish, hamster). Dog: 6 votes; cat: 7 votes; fish: 4 votes; hamster: 3 votes.</p>	<p>a. <i>Cat</i></p> <p>b. <i>Hamster</i></p>																														
6.	<p>a. Which round is won by Team Y? Round 4</p> <p>b. Which round is won by Team X? None</p> <table border="1" style="display: inline-table; margin-left: 20px;"> <thead> <tr> <th>Round</th> <th>Team W</th> <th>Team X</th> <th>Team Y</th> <th>Team Z</th> <th>Winner in a round</th> </tr> </thead> <tbody> <tr><td>1</td><td>5</td><td>5</td><td>4</td><td>6</td><td>Team Z</td></tr> <tr><td>2</td><td>8</td><td>6</td><td>3</td><td>3</td><td>Team W</td></tr> <tr><td>3</td><td>5</td><td>5</td><td>5</td><td>5</td><td>tie</td></tr> <tr><td>4</td><td>4</td><td>5</td><td>6</td><td>5</td><td>Team Y</td></tr> </tbody> </table>	Round	Team W	Team X	Team Y	Team Z	Winner in a round	1	5	5	4	6	Team Z	2	8	6	3	3	Team W	3	5	5	5	5	tie	4	4	5	6	5	Team Y	<p>a. <i>Round 4</i></p> <p>b. <i>None</i></p>
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4	4	5	6	5	Team Y																											
7.	<p>Team W: $5+8+5+4 = 22$ points Team X: $5+6+5+5 = 21$ points Team Y: $4+3+5+6 = 18$ points Team Z: $6+3+5+5 = 19$ points</p>	<p><i>Team W, X, Z, Y</i></p>																														
8.	<p>a. Which instruments got the most votes? Piano (6 notes, or 12 people)</p> <p>b. Which instrument got 10 votes? $10 \text{ votes} \rightarrow 10 \div 2 = 5 \text{ notes}$, Guitar (5 notes)</p>	<p>a. <i>Piano</i></p> <p>b. <i>Guitar</i></p>																														

9.	<p>a. How many more votes did the piano have than the drums? 2 notes = 4 votes</p> <p>b. How many votes were recorded in the survey? 20 notes × 2 = 40 votes</p>	<p>a. 4 [votes]</p> <p>b. 40</p>
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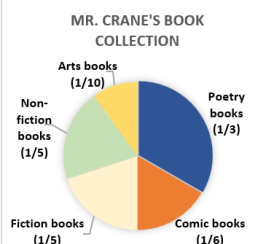
10.	<table border="1"> <tr> <td>Friday</td> <td></td> </tr> <tr> <td>Saturday</td> <td></td> </tr> <tr> <td>Sunday</td> <td></td> </tr> <tr> <td colspan="2"> = 20 tickets = 10 tickets</td> </tr> </table> <p>The number of tickets sold: $15 \text{ piano icons} = 15 \times 20 = 300$ $1 \text{ drum icon} = 10$ Total money collected: $310 \times \\$5 = \\1550</p>	Friday		Saturday		Sunday		= 20 tickets = 10 tickets		\$1550
Friday										
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11.	<p>a. How many donuts are sold by the bakery at location B? $5 \frac{1}{4} \text{ donut icons} = 210$</p> <p>b. Which location sold 275 cookies in a week? $275 \div 50 = 5.5$, Location D</p> <p>c. What is the total number of donuts sold in a week? $16 \frac{1}{4} \text{ donut icons} = 650$</p> <p>d. What is the total number of cookies sold in a week? $19 \text{ cookie icons} = 950$</p>	<p>a. 210</p> <p>b. D</p> <p>c. 650</p> <p>d. 950</p>
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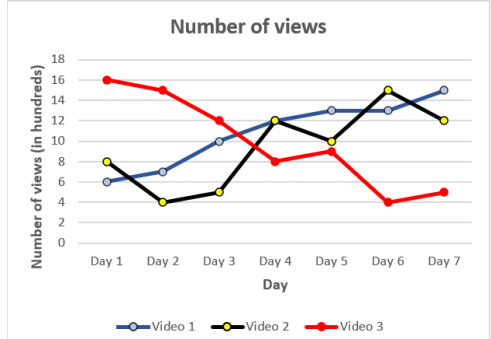
12.	<p>a. Which location(s) brought in more than \$1000 each week?</p> <p>b. Which location has the least revenue?</p> <p>c. What is the total revenue generated by all four locations?</p> <p>Revenue from location A: 140 donuts and 225 cookies = $140 \times \\$3 + 225 \times \\$2 = \\$870$ Revenue from location B: 210 donuts and 200 cookies = $210 \times \\$3 + 200 \times \\$2 = \mathbf{\\$1030}$ Revenue from location C: 120 donuts and 250 cookies = $120 \times \\$3 + 250 \times \\$2 = \\$860$ Revenue from location D: 180 donuts and 275 cookies = $180 \times \\$3 + 275 \times \\$2 = \mathbf{\\$1090}$ Total revenue: $\\$870 + \\$1030 + \\$860 + \\$1090 = \\$3850$</p>	<p>a. B and D</p> <p>b. C</p> <p>c. \$3850</p>
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13.	<p>a. Profit: $(\\$870 + \\$1030 + \\$860 + \\$1090) - (\\$550 \times 4) = \mathbf{\\$1650}$</p> <p>b. $(240 \times \\$3 + 300 \times \\$2) - \\$550 = \\$720 + \\$600 - \\$550 = \mathbf{\\$770}$</p>	<p>a. \$1650</p> <p>b. \$770</p>
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14.	<p>a. Malinda scored: $9+3+3+12+15+12+15+9+18+3+9+18 = \mathbf{126}$</p> <p>b. $126 \div 12 = \mathbf{10.5}$</p>	<p>a. 126</p> <p>b. 10.5</p>
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15.	 <p>a. Poetry</p> <p>b. $1 - \frac{1}{6} = \frac{5}{6}$</p> <p>c. $\frac{1}{3} \rightarrow 80 \text{ books}; \frac{3}{3} \rightarrow 80 \times 3 = \mathbf{240 \text{ books}}$</p>	<p>a. Poetry</p> <p>b. 5/6</p> <p>c. 240 [books]</p>
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16.	<p>a. The line plot shows 21 is the missing data.</p> <p>b. $(20+22+20+21+16)/5 = 19.8$</p>	<p>a. 21</p> <p>b. 19.8</p>
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17.	<p>a. $9+10+13 = 32$ hundreds of views = 3200 views</p> <p>b. Day 4 (1200 views)</p> <p>c. Video 1</p> <p>d. Video 1: $(6 + 7 + 10 + 12 + 13 + 13 + 15) \times 100 = 76 \times 100 = 7600$ views Video 2: $(8 + 4 + 5 + 12 + 10 + 15 + 12) \times 100 = 66 \times 100 = 6600$ views Video 3: $(16 + 15 + 12 + 8 + 9 + 4 + 5) \times 100 = 69 \times 100 = 6900$ views Total: $7600 + 6600 + 6900 = 21100$ views</p>	 <p>a. 200 views</p> <p>b. Day 4</p> <p>c. Video 1</p> <p>d. 21100 views</p>
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Solution is available on January 10, 2025
www.mathinaction.org