

Important Math Information

Numbers to 20 and Beginning Addition

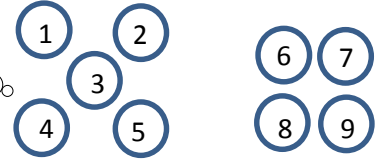
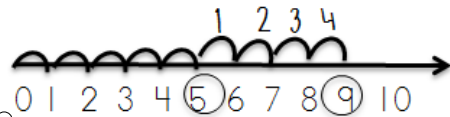


Dear Family,

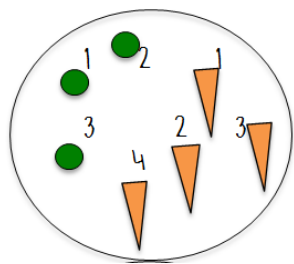
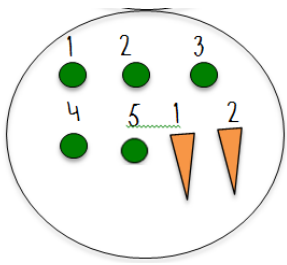
Our class is starting the year with a unit of study in mathematics called *Numbers to 20 and Beginning Addition*. This unit of study focuses on counting, comparing quantities, addition, and finding two addends for a number. The specific learning goals your student will be working toward are listed below with examples of student work showing understanding of each learning goal.

Learning Goal: Count to 20 starting at any number, read and write numerals to 20, and represent up to 20 objects with a written numeral.	
Example Problem	Example Student Solution
Draw 16 circles.	
Learning Goal: Compare two sets of up to 20 objects.	
Example Problem	Example Student Solution
Compare the two sets of cards. Which player has more?	<div style="display: flex; justify-content: space-around;"> <div style="text-align: center;"> <p>Player A</p> </div> <div style="text-align: center;"> <p>Player B</p> </div> </div> <div style="display: flex; justify-content: space-around; margin-top: 20px;"> <div style="text-align: center;"> <p><i>"I counted all the tally marks on both cards and ended up with 13."</i></p> </div> <div style="text-align: center;"> <p><i>"I counted 18 tally marks on these cards. 18 is more than 13."</i></p> </div> </div> <p style="text-align: center;">Player B has more than Player A.</p>

Learning Goal: Show and solve addition word problems with totals to 12.

Example Problem	Example Student Solutions																																																																																																					
<p><i>"I drew 5 circles for the birds. Then I drew 4 more circles. Now there are 9 birds in the tree."</i></p> <p>There are 5 birds in a tree. 4 more birds come to the tree. How many birds are in the tree now?</p> <p><i>"I started at 5 and counted 4 more and ended up at 9."</i></p>	<p>Draw Pictures</p> 	<p>Use a Number Line</p>  <p><i>"I counted to 5 on the number line and then I counted 4 more. I stopped at 9."</i></p>																																																																																																				
	<p>Use the 100 Chart</p> <table border="1"> <tr><td>1</td><td>2</td><td>3</td><td>4</td><td>5</td><td>6</td><td>7</td><td>8</td><td>9</td><td>10</td></tr> <tr><td>11</td><td>12</td><td>13</td><td>14</td><td>15</td><td>16</td><td>17</td><td>18</td><td>19</td><td>20</td></tr> <tr><td>21</td><td>22</td><td>23</td><td>24</td><td>25</td><td>26</td><td>27</td><td>28</td><td>29</td><td>30</td></tr> <tr><td>31</td><td>32</td><td>33</td><td>34</td><td>35</td><td>36</td><td>37</td><td>38</td><td>39</td><td>40</td></tr> <tr><td>41</td><td>42</td><td>43</td><td>44</td><td>45</td><td>46</td><td>47</td><td>48</td><td>49</td><td>50</td></tr> <tr><td>51</td><td>52</td><td>53</td><td>54</td><td>55</td><td>56</td><td>57</td><td>58</td><td>59</td><td>60</td></tr> <tr><td>61</td><td>62</td><td>63</td><td>64</td><td>65</td><td>66</td><td>67</td><td>68</td><td>69</td><td>70</td></tr> <tr><td>71</td><td>72</td><td>73</td><td>74</td><td>75</td><td>76</td><td>77</td><td>78</td><td>79</td><td>80</td></tr> <tr><td>81</td><td>82</td><td>83</td><td>84</td><td>85</td><td>86</td><td>87</td><td>88</td><td>89</td><td>90</td></tr> <tr><td>91</td><td>92</td><td>93</td><td>94</td><td>95</td><td>96</td><td>97</td><td>98</td><td>99</td><td>100</td></tr> </table>	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100	<p>Use Known Combinations</p> <p><i>"I know that 4 + 4 = 8. 5 + 4 is one more. So that means 5 + 4 = 9."</i></p>
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Learning Goal: Break apart numbers to 10 in more than one way.

Example Problem	Example Student Solutions	
<p>There are 7 vegetables on a plate. Some are peas and some are carrots. How many of each could you have?</p>		<p><i>"I could have 3 peas and 4 carrots. Or I could have 5 peas and 2 carrots."</i></p> <p>$7=3+4$ $7=5+2$</p> 

Mathematical Thinking and Practices Learning Goal: Understand problems and solve them using strategies without giving up.



Things you can do at home with your child to support this unit of study:

- Count real objects like Legos, beans, and pennies.
- Follow the calendar and count the number of days in each month.
- Play Compare with a deck of cards (remove the King, Queen, Jack and Ace). Each player shows a card. The player with the greater number takes both cards. Play continues like this until one player has all of the cards. Make sure your child explains how he/she knows who has the larger number.

