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| Lesson Title | Addition: Making Friendly (Landmark) Numbers |
| Prerequisites | none |
| Purpose | For children to deconstruct and manipulate numbers to aid mental computation |
| Materials | Whiteboard |
| Presentation | One away from a friendly number  Write on whiteboard:  19 + 5  **I know you all know the answer, but what I am really interested in is how you solved this problem. How did your brain add these numbers?**  Children may come up with different ways. Write each one on board:  19 + 1 + 1 + 1 + 1 + 1 (counting on)  19 + 1 + 4 (making the friendly number 20, then adding what was left)  **Do you see what we did with this last example? We took one away from here (the 5) and put it here (the 19) to make a friendly number (20). That meant we ended up with 20 + 4. Making friendly numbers can really help us when we are adding larger numbers together.**  Do more examples:  29 + 8 (29 + 1 + 7)  9 + 7  39 + 6  19 + 4  9 + 26  16 + 19  23 + 49  99 + 51  Another day - Two away from a friendly number  Write on whiteboard:  8 + 5  **I know you all know the answer, but what I am really interested in is how you solved this problem. How did your brain add these numbers?**  Children may come up with different ways. Write each one on board:  8 + 1 + 1 + 1 + 1 + 1 (counting on)  8 + 2 + 3 (making the friendly number 10, then adding what was left)  **Do you see what we did with this last example? We took two away from here (the 5) to make a friendly number (10). Then it was easy to add on what was left. Whenever I am doing an addition, and I see an 8, I know I can add 2 more to get to a friendly number and that will help me find the answer more easily.**  Do lots of examples together:  8 + 13  8 + 24  18 + 7  8 + 4  18 + 6  28 + 17  27 + 28  28 + 16  25 + 38  23 + 27  28 + 45  18 + 63  38 + 37  67 + 28  48 + 52  Another Day – Mixing it up  Problems with two- and three-digit addends. The addends are one or more away from a friendly number, or using “friends of ten”.  99 + 38  98 + 47  98 + 99  99 + 99 + 5  119 + 26  118 + 17  129 + 16  124 + 26  36 + 109  49 + 108  119 + 48  126 + 124  116 + 29  39 + 127  114 + 118  46 + 118 |
| Follow Up Work |  |
| Extensions |  |