















# Activity 20 Building Your Binary Skills 1



Create a binary code bracelet by writing the corresponding binary code for each letter of your name.

**Reminder:**  
The binary system uses a code made up of 0 and 1s. Using this binary alphabet create a name bracelet using binary code:

|   |          |   |          |   |          |
|---|----------|---|----------|---|----------|
| A | 01000001 | J | 01001010 | S | 01010011 |
| B | 01000010 | K | 01001011 | T | 01010100 |
| C | 01000011 | L | 01001100 | U | 01010101 |
| D | 01000100 | M | 01001101 | V | 01010110 |
| E | 01000101 | N | 01001110 | W | 01010111 |
| F | 01000110 | O | 01001111 | X | 01011000 |
| G | 01000111 | P | 01010000 | Y | 01011001 |
| H | 01001000 | Q | 01010001 | Z | 01011010 |
| I | 01001001 | R | 01010010 |   |          |

Write your name out here in binary first, then into the bracelet template and staple it together to make a binary code bracelet.

First letter \_\_\_\_\_ Second letter \_\_\_\_\_

Third letter \_\_\_\_\_ Fourth letter \_\_\_\_\_

Fifth letter \_\_\_\_\_ Sixth letter \_\_\_\_\_

Seventh letter \_\_\_\_\_ Eighth letter \_\_\_\_\_

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Use information from the "Create A Smartie Pie-Chart" page to answer these questions.

1. What does the chart tell you? \_\_\_\_\_  
\_\_\_\_\_
2. Which colour is the most common? \_\_\_\_\_
3. Which the least? \_\_\_\_\_
4. How many Smarties are there in total? \_\_\_\_\_
5. What percentage of the Smarties are red? \_\_\_\_\_
6. Can you write this as a fraction? \_\_\_\_\_
7. Can you convert it into a decimal? \_\_\_\_\_
8. How likely are you to get green Smarties using your data? \_\_\_\_\_  
\_\_\_\_\_
9. How does the data change when you deduct 10 red Smarties from the list? \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_
10. Compare your pie-chart to a friend and discuss the similarities and differences below:  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_
11. What other ways could you display this data using Excel? \_\_\_\_\_  
\_\_\_\_\_
12. Which display would be the most useful to demonstrate the capabilities of Excel?  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Sample

