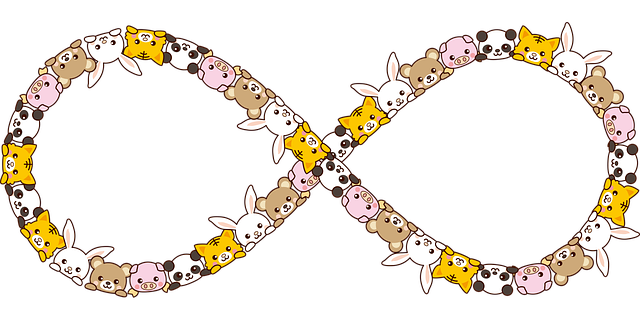
Starter worksheet questions

Circle the correct output for the following python program. Then write a brief explanation for your answer or circle “It was a guess”.

| Q1.    A - 5  B - 6  C - i D -  0  1  2  3  4  5 | Q2.    A - 10  B - total  C - 15  D -  0  1  3  6  10 |
| --- | --- |
| **Explain your answer:**  The print statement is still within the for loop, which means that each of the iterations of the looper i need to be printed. The range function stops looping before a specified number, so in this case it stops before 6 i.e. 5.  **Or….It was a guess.** | **Explain your answer:**  The print statement is outside the loop so the total that prints to screen is the last version of total. Each time it goes round the loop you add x (i.e. the previous looper) to the running total.  **Or….It was a guess.** |

| Q3.    A - hamsters  B - hamsters \*10  C - 20000  D - 2000 | Q4.    A - shells  B - 10  C - 1  D - 8 |
| --- | --- |
| **Explain your answer:**  Unless specified, a for loop starts from 0 and ends before the top of the range. So this program runs like this:  0 - 2x10 = 20  1 - 20x10 = 200  2 - 200x10 = 2000  **Or….It was a guess.** | **Explain your answer:**  The flowers variable is greater than 1 initially so the shells variable goes up by 2 as the flowers reduces by 1.  Shells Flowers  2 5  4 4  6 3  8 2  10 1  (at this point the while loops stops)  **Or….It was a guess.** |

