This solution defines \fillineol (\fillineol*) command. The syntax of this command is,

    \fillineol*{<phrase>}[<options>]{<answer>}

The first argument is the phrase that is to be measured. The next two arguments are passed to \fillin. The length of this phrase is subtracted from \linewidth. The phrase is then reinserted followed by a \fillin with its arguments (including the calculated length). The phrase may contain verbatim material, if so, use the star form \fillineol*; in this case, the collectbox package is required. The line you're measuring should be less than \linewidth, if not, see problem **??** below.

1. 1788 is <u>One thousand seven hundred and eighty-eight</u>

2. Enter your full name: | John Q. Public |

3. Enter your full name (\fillineol*): | John Q. Public |

4. Answer each (list)

    (a) First name: <u>John Q.</u>

    (b) Last name: <u>Public</u>

5. Answer each (multicol)

    (a) First name: <u>John Q.</u>   (b) Last name: <u>Public</u>

6. Answer each (tabular)

    (a) First name: <u>John Q.</u>   (b) Last name: <u>Public</u>

7. Answer each (multicol). Here we demonstrate what happens when the 'phrase' is too long for the line. The width of the \fillin command is set to 0pt, which means the width of the fill-in will be the *natural width* of the answer. See part (a) below, a warning message is placed in the log as well.

    (a) Enter your first name and be sure of the spelling, First name: <u>John</u>

    (b) What happens if a line wraps around? This problem illustrates a proposed fix, Enter your favorite first name: <u>Johnny</u>

    How to you get the \fillin to extend to the end-of-line when the line is too long? Parts (c) and (d) attempt to answer that question.

    (c) The procedure is to enclose the whole sentence in \fillineol to see where the last line break is. That's it? <u>That's it!</u>

    The next step is to move the '\fillineol{' to the starting of the last line break.

    In this example we moved '\fillineol{' from '\fillineol{The procedure ...' to the beginning of the last line '\fillineol{is. ...'.

    (d) The procedure is to enclose the whole sentence in \fillineol to see where the last line break is. That's it? <u>That's it!</u>

Here is an example of dealing with a question in math mode.

8. $(a - b)^3 =$ | $a^3 - 3a^2b + 3ab^2 - b^3$ |