1. a. 3
   a. 7
   a. 4

2. a. max(3, 4), then abs(-5), then min(4, 5).
   b. max(2, 8), then min(4, 6, 8), then abs(4).
   c. max(5.572, 3.258), then abs(-2), then round(5.572, 2).

3. def triple(num):
   """ (number) -> number
   Return num tripled.
   >>> triple(3)
   9
   """
   return num * 3

4. def absolute_difference(number1, number2):
   """ (number, number) -> number
   Return the absolute value of the difference between number1 and number2.
   >>> absolute_difference(3, 7)
   4
   """
   return abs(number1 - number2)

5. def km_to_miles(km):
   """ (number) -> float
   Return the distance km in miles.
   >>> km_to_miles(5)
   3.125
   """
   return km / 1.6
6.

def average_grade(grade1, grade2, grade3):
    """ (number, number, number) -> number

    Return the average of the grade1, grade2, and grade3, where each grade ranges from 0 to 100, inclusive.

    >>> average_grade(80, 95, 90)
    88.33333333333333
    """
    return (grade1 + grade2 + grade3) / 3

7.

def top_three_avg(grade1, grade2, grade3, grade4):
    """ (number, number, number, number) -> number

    Return the average of the top three of grades grade1, grade2, grade3, and grade4.

    >>> top_three_avg(50, 60, 70, 80)
    70
    """

    # Here is one solution that does not use average_grade from Q6.
    total = grade1 + grade2 + grade3 + grade4
    top_three = total - min(grade1, grade2, grade3, grade4)
    return top_three / 3

    # Here is a different solution that does use the function from Q6.
    return max(average_grade(grade1, grade2, grade3),
               average_grade(grade1, grade2, grade4),
               average_grade(grade1, grade3, grade4),
               average_grade(grade2, grade3, grade4))

8.

def weeks_elapsed(day1, day2):
    """ (int, int) -> int

day1 and day2 are days in the same year. Return the number of full weeks that have elapsed between the two days.

    >>> weeks_elapsed(3, 20)
    2
    >>> weeks_elapsed(20, 3)
    2
    >>> weeks_elapsed(8, 5)
    0
    >>> weeks_elapsed(40, 61)
    3
    """
    return int(abs(day1 - day2) / 7)
9.

<table>
<thead>
<tr>
<th>Description</th>
<th>Example</th>
</tr>
</thead>
<tbody>
<tr>
<td>Parameter</td>
<td>num</td>
</tr>
<tr>
<td>Argument</td>
<td>3</td>
</tr>
<tr>
<td>Function name</td>
<td>square</td>
</tr>
<tr>
<td>Function call</td>
<td>square(3)</td>
</tr>
</tbody>
</table>

10.

def square(num):
    """ (number) -> number
    Return the square of num.
    >>> square(3)
    9
    """
    return num ** 2

...or:

def square(num):
    """ (number) -> number
    Return the square of num.
    >>> square(3)
    9
    """
    return num * num