```
1.
 a. 2
 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)
    11 11 11
    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)
    ** ** **
    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
```

```
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
    11 11 11
    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)
    11 11 11
    # 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)
    >>> weeks elapsed(20, 3)
    >>> weeks elapsed(8, 5)
    >>> weeks elapsed(40, 61)
    3
    11 11 11
    return int(abs(day1 - day2) / 7)
```

## 9.

```
Description
                        Example
Parameter
                           num
Argument
                          3
Function name
                         square
square(3)
Function call
10.
def square(num):
    """ (number) -> number
    Return the square of num.
    >>> square(3)
    11 11 11
    return num ** 2
...or:
def square(num):
    """ (number) -> number
    Return the square of num.
    >>> square(3)
    return num * num
```