Problem 1

1. B
2. D
3. C
4. C
5. C
6. A
7. B is the best answer, however "C" is also technically correct: the value of **`i`** after the while loop completes would pass the test **`i >= 5`**.
8. A
9. C
10. B *(the code infinitely loops)*
11. A
12. A

Problem 2

a.
```
keep_going = 'y'

while keep_going in ['y', 'Y', 'yes']:
    n = float(input("Enter a number: "))
    print("Your number squared: ", n**2)

    keep_going = input("Continue? ")
```

b.
```
keep_going = 'y'

while keep_going in ['y', 'Y', 'yes']:
    print_hello_world()
    keep_going = input("Continue? ")
```

c.
```
x = 1
while x <= 10:
    print(x, end=" ")
    x += 1
```

d.
```
x = 10
while x > 0:
    print(x, end=" ")
    x -= 1
```

Problem 3

```
i = 10
while i > 0:
    print(i, end=" ")
    i -= 1
print("Blast off!")
```

Problem 4

```
for odd in range(1, 100, 2):
    print(odd, end=" ")
```

Problem 5

a.
```
begin = 4
end = 16

i = begin
while i < end:
    print(i**2, end=" ")
    i += 2
```

b.
```
for x in range(4, 16, 2):
    print(x**2)
```