1. 76: $\sqrt{76} = 8...$ so, we need to check untill 8:

factors of 76:

(1, 76), (2, 38), (4, 19)

so, factors are [1, 2, 4, 19, 38, 76].

2. factors of 128: $\sqrt{128}$ is 11. so, we need to check until 11:

(1, 128), (2, 64), (4, 32), (8, 16)

so, factors of 128 are

[1, 2, 4, 8, 16, 32, 64, 128]

All are powers of 2

3. factors of 82: $\sqrt{82}$ is 9.__, so we need to check until 9

(1, 82), (2, 41)

factors are [1, 2, 41, 82]

4. factors of 96: $\sqrt{96}$ is 9... We have to check until 9

(1, 96), (2, 48), (3, 32), (4, 24), (6, 16), (8, 12)

factors are [1, 2, 3, 4, 6, 8, 12, 16, 24, 32, 48, 96]

5. factors of 63: $\sqrt{63}$ is 7.__ so we need to check until 7

(1, 63), (3, 21), (7, 9)

Factors are (1, 3, 7, 9, 21, 63)

6. factors of 42: $\sqrt{42}$ is 6._ so, we have to check until 6

(1, 42), (2, 21), (3, 14), (6, 7)

factors are [1, 2, 3, 6, 7, 14, 21, 42]

7. factors of 88: $\sqrt{88}$ is 9. So, we have to check until 9

(1, 88), (2, 44), (4, 22), (8, 11)

Factors are [1, 2, 4, 8, 11, 22, 44, 88]

8. factors of 120: $\sqrt{120}$ is 10. so we need to check until 10

(1, 120), (2, 60), (3, 40), (4, 30), (5, 24), (6, 20), (8, 15), (10, 12)

factors are 1, 2, 3, 4, 5, 6, 8, 10, 12, 15, 20, 24, 30, 40, 60, 120