

## Number 20 Math QAP

### 1. `math.trunc()`

This function separates a number to its integer part, effectively removing any decimal portion without rounding.

Example:

```
Number = 5.9
```

```
Results = math.trunc(Number)
```

```
print(Results)
```

Output would print only the 5

### 2. `math.floor()`

This function returns the largest integer less than or equal to the given number. It effectively rounds down to the nearest whole number.

Example:

```
Number = 5.9
```

```
Results = math.floor(Number)
```

```
print(Results)
```

Output would print only the 5

### 3. `math.ceil()`

This function returns the smallest integer greater than or equal to the given number. It effectively rounds up to the nearest whole number.

Example:

```
Number = 5.9
```

```
Results = math.ceil(Number)
```

```
print(Results)
```

Output would print only the 6

#### 4. `math.sqrt()`

This function returns the square root of a non-negative number. If the input is negative, it raises a `ValueError`.

Example:

```
Number = 16
```

```
Results = math.sqrt(Number)
```

```
print(Results)
```

Output would print only the 4