# Assignment 12: Conditionals

#### Ellen Bledsoe

## 2025-04-15

# Assignment

```
1. Choice Operators (20 pts)
1a
## [1] TRUE
1b
## [1] TRUE
1c
## [1] FALSE
1d
## [1] TRUE FALSE FALSE TRUE TRUE
1e
## [1] FALSE
1f
## [1] TRUE
1g
## [1] TRUE
1h
## [1] TRUE
1i
```

## [1] TRUE TRUE FALSE FALSE TRUE

2.	If S	tatements (20 points)
2a		
##	[1]	10
2b		
##	[1]	5
2c		
##	[1]	0
2d		
##	[1]	10
##	[1]	5
##	[1]	0
##	[1]	0
##	[1]	0
		0 tatements in Functions (20 points)
<b>3.</b> 3a		
3.		
<ul><li>3a</li><li>3b</li></ul>		tatements in Functions (20 points)
<ul><li>3a</li><li>3b</li></ul>	If S	tatements in Functions (20 points)
<ul><li>3a</li><li>3b</li><li>##</li><li>3c</li></ul>	If S	tatements in Functions (20 points)
<ul><li>3a</li><li>3b</li><li>##</li><li>3c</li></ul>	If S	tatements in Functions (20 points)
<ul><li>3.</li><li>3a</li><li>3b</li><li>##</li><li>3c</li><li>##</li></ul>	If S	tatements in Functions (20 points)
<ul><li>3a</li><li>3b</li><li>##</li><li>3c</li><li>##</li><li>3d</li><li>3e</li></ul>	If S	tatements in Functions (20 points)  20  30
<ul><li>3a</li><li>3b</li><li>##</li><li>3c</li><li>##</li><li>3d</li><li>3e</li></ul>	If S [1]	tatements in Functions (20 points)  20  30
3. 3a 3b ## 3c ## 3d 3e ##	[1]	tatements in Functions (20 points)  20  30

## [1] NA

```
4. Size Estimates by Name (20 points)
4a
## [1] 4779.848
4b
## [1] 1385.286
4c
## [1] 8070.685
4d
## [1] NA
Challenge 1 (optional)
## Warning in get_mass_from_length_by_name(13, "Ankylosauria"): No known
## estimation for Ankylosauria
Challenge 2 (optional)
## [1] 1283.047
5. Using dplyr Choice Functions (20 points)
##
## Attaching package: 'dplyr'
## The following objects are masked from 'package:stats':
##
##
       filter, lag
## The following objects are masked from 'package:base':
##
##
       intersect, setdiff, setequal, union
5a
## [1] "small"
5b
## [1] "medium"
5c
```

### ## [1] "medium"

5d Note: I used the .after argument in the mutate() function to control where the new column shows up so it can be seen in the answer key.

## # A tibble: 392 x 10									
##		date	latitude	site	size	size_category	air_temp	air_temp_sd	water_temp
##		<date></date>	<dbl></dbl>	<chr>&gt;</chr>	<dbl></dbl>	<chr></chr>	<dbl></dbl>	<dbl></dbl>	<dbl></dbl>
##	1	2016-07-24	30	GTM	12.4	small	21.8	6.39	24.5
##	2	2016-07-24	30	GTM	14.2	small	21.8	6.39	24.5
##	3	2016-07-24	30	GTM	14.5	small	21.8	6.39	24.5
##	4	2016-07-24	30	GTM	12.9	small	21.8	6.39	24.5
##	5	2016-07-24	30	GTM	12.4	small	21.8	6.39	24.5
##	6	2016-07-24	30	GTM	13.0	small	21.8	6.39	24.5
##	7	2016-07-24	30	GTM	10.3	small	21.8	6.39	24.5
##	8	2016-07-24	30	GTM	11.2	small	21.8	6.39	24.5
##	9	2016-07-24	30	GTM	12.7	small	21.8	6.39	24.5
##	10	2016-07-24	30	GTM	14.6	small	21.8	6.39	24.5
## # i 382 more rows									
<pre>## # i 2 more variables: water_temp_sd <dbl>, name <chr></chr></dbl></pre>									

5e Note: I used the .after argument in the mutate() function to control where the new column shows up so it can be seen in the answer key.

## # A tibble: 392 x 10								
##	date	latitude	site	size	<pre>size_category3</pre>	${\tt air\_temp}$	air_temp_sd	
##	<date></date>	<dbl></dbl>	<chr>&gt;</chr>	<dbl></dbl>	<chr></chr>	<dbl></dbl>	<dbl></dbl>	
##	1 2016-07-24	30	GTM	12.4	medium	21.8	6.39	
##	2 2016-07-24	30	GTM	14.2	medium	21.8	6.39	
##	3 2016-07-24	30	GTM	14.5	medium	21.8	6.39	
##	4 2016-07-24	30	GTM	12.9	medium	21.8	6.39	
##	5 2016-07-24	30	GTM	12.4	medium	21.8	6.39	
##	6 2016-07-24	30	GTM	13.0	medium	21.8	6.39	
##	7 2016-07-24	30	GTM	10.3	medium	21.8	6.39	
##	8 2016-07-24	30	GTM	11.2	medium	21.8	6.39	
##	9 2016-07-24	30	GTM	12.7	medium	21.8	6.39	
##	10 2016-07-24	30	GTM	14.6	medium	21.8	6.39	
##	# i 382 more	rows						

## # i 3 more variables: water\_temp <dbl>, water\_temp\_sd <dbl>, name <chr>