

# Homework 4

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2023-02-16

1 The ANOVA from a randomized complete block experiment output is shown below. In this experiment, 30 experimental units were evaluated.

Source	SS	DF	MS	F	P
Treatment	1010.56	4	-	29.84	-
Block	-	-	64.765	-	-
Error	169.33	20	-		
Total	1503.71	-			

a) Fill in the blanks.

```
pf(q = 29.84, df1 = 4, df2 = 20, lower.tail = F) # for treatment
```

```
## [1] 3.544848e-08
```

```
pf(q = 7.64956, df1 = 5, df2 = 20, lower.tail = F) # for block
```

```
## [1] 0.0003688504
```

Source	SS	DF	MS	F	P
Treatment	1010.56	4	252.64	29.84	3.544848e-08
Block	323.82	5	64.765	7.64956	0.0003688504
Error	169.33	20	8.4665		
Total	1503.71	29			

b) How many blocks were used in this experiment?  
6 blocks

c) What conclusions can you draw?