

[1] "1461"

Call:

```
lm(formula = data$mathach ~ data$grpmeansesc)
```

Residuals:

Min	1Q	Median	3Q	Max
-14.0132	-2.9983	0.1014	3.1012	14.4610

Coefficients:

	Estimate	Std. Error	t value	Pr(> t )
(Intercept)	16.8426	0.9594	17.555	< 2e-16 ***
data\$grpmeansesc	6.2665	1.4069	4.454	0.000102 ***

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Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1

Residual standard error: 5.511 on 31 degrees of freedom  
Multiple R-squared: 0.3902, Adjusted R-squared: 0.3706  
F-statistic: 19.84 on 1 and 31 DF, p-value: 0.000102

[1] "5762"

Call:

```
lm(formula = data$mathach ~ data$grpmeansesc)
```

Residuals:

Min	1Q	Median	3Q	Max
-7.5463	-3.1648	-0.9253	2.8136	15.4601

Coefficients:

	Estimate	Std. Error	t value	Pr(> t )
(Intercept)	4.3249	0.8281	5.223	8.17e-06 ***
data\$grpmeansesc	-1.0141	1.6288	-0.623	0.538

---

Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1

Residual standard error: 5.037 on 35 degrees of freedom  
Multiple R-squared: 0.01095, Adjusted R-squared: -0.0173  
F-statistic: 0.3876 on 1 and 35 DF, p-value: 0.5376

[1] "8357"

Call:

```
lm(formula = data$mathach ~ data$grpmeansesc)
```

Residuals:

```
      Min      1Q   Median      3Q      Max
-15.4767 -4.0512  0.4069   3.9889   9.4437
```

Coefficients:

```
      Estimate Std. Error t value Pr(>|t|)
(Intercept)      14.382     1.203  11.955 7.78e-12 ***
data$grpmeansesc  2.676     1.194   2.242  0.0341 *
```

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Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1

Residual standard error: 6.251 on 25 degrees of freedom  
Multiple R-squared: 0.1674, Adjusted R-squared: 0.1341  
F-statistic: 5.025 on 1 and 25 DF, p-value: 0.0341

[1] "7697"

Call:

```
lm(formula = data$mathach ~ data$grpmeansesc)
```

Residuals:

```
      Min      1Q   Median      3Q      Max
-13.2614 -4.9331  0.6214   5.8508   8.9964
```

Coefficients:

```
      Estimate Std. Error t value Pr(>|t|)
(Intercept)      15.722     1.138  13.809 1.55e-14 ***
data$grpmeansesc  3.136     1.886   1.663  0.107
```

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Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1

Residual standard error: 6.44 on 30 degrees of freedom  
Multiple R-squared: 0.08441, Adjusted R-squared: 0.05389  
F-statistic: 2.766 on 1 and 30 DF, p-value: 0.1067

[1] "9359"

Call:

```
lm(formula = data$mathach ~ data$grpmeansesc)
```

Residuals:

```
      Min      1Q   Median      3Q      Max
-16.431 -5.805   1.384   6.308   9.380
```

Coefficients:

```
      Estimate Std. Error t value Pr(>|t|)
(Intercept)      15.2706     0.9779  15.615 <2e-16 ***
```

```

data$grpmeansesc -0.8335      1.7233  -0.484    0.631
---
Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

Residual standard error: 7.12 on 51 degrees of freedom
Multiple R-squared:  0.004566,    Adjusted R-squared:  -0.01495
F-statistic: 0.2339 on 1 and 51 DF,  p-value: 0.6307

```

[1] "9198"

```

Call:
lm(formula = data$mathach ~ data$grpmeansesc)

```

```

Residuals:
    Min       1Q   Median       3Q      Max
-14.054  -1.626   1.439   3.566   6.214

```

```

Coefficients:
            Estimate Std. Error t value Pr(>|t|)
(Intercept)   19.0923    0.9728  19.626 <2e-16 ***
data$grpmeansesc  2.6105    1.5187   1.719  0.0963 .
---

```

```

Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

```

```

Residual standard error: 5.416 on 29 degrees of freedom
Multiple R-squared:  0.09247,    Adjusted R-squared:  0.06118
F-statistic: 2.955 on 1 and 29 DF,  p-value: 0.09628

```

[1] "7688"

```

Call:
lm(formula = data$mathach ~ data$grpmeansesc)

```

```

Residuals:
    Min       1Q   Median       3Q      Max
-17.193  -2.526   0.817   2.997   6.500

```

```

Coefficients:
            Estimate Std. Error t value Pr(>|t|)
(Intercept)   18.4223    0.6180  29.811 <2e-16 ***
data$grpmeansesc  0.1163    1.1051   0.105  0.917
---

```

```

Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

```

```

Residual standard error: 4.541 on 52 degrees of freedom
Multiple R-squared:  0.0002131,    Adjusted R-squared:  -0.01901

```

F-statistic: 0.01108 on 1 and 52 DF, p-value: 0.9166

[1] "3427"

Call:

```
lm(formula = data$mathach ~ data$grpmeansesc)
```

Residuals:

Min	1Q	Median	3Q	Max
-7.529	-2.656	1.024	2.946	5.414

Coefficients:

	Estimate	Std. Error	t value	Pr(> t )
(Intercept)	19.7156	0.5091	38.73	<2e-16 ***
data\$grpmeansesc	-0.4882	0.7750	-0.63	0.532

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Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1

Residual standard error: 3.563 on 47 degrees of freedom

Multiple R-squared: 0.008371, Adjusted R-squared: -0.01273

F-statistic: 0.3967 on 1 and 47 DF, p-value: 0.5318

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