## Unit 11 - Week 10



## Week 11

Week 12

DOWNLOAD VIDEOS
(ii) 30.875
(iii) 33.875
(iv) 35.545

No, the answer is incorrect.
Score: 0
Accepted Answers:
(iii) 33.875
3) The sum of squares of $A B$ is:

2 points
(i) 189.063
(ii) 188.063
(iii) 198.063
(iv) 189.603

No, the answer is incorrect.
Score: 0
Accepted Answers:
(i) 189.063
4) The significant effects are:

4 points
(i) $A, B$, and $A B$
(ii) $A, C$, and $A C$
(iii) $A, B$, and $C$
(iv) $A, B, C$, and $A B$

No, the answer is incorrect.
Score: 0
Accepted Answers:
(iv) $A, B, C$, and $A B$
5) The regression coefficients of $A, B, C D$ are:

4 points
(i) $5.56,16.01$, and 0.44 , respectively
(ii) $5.56,16.94$, and -5.44 , respectively(iii) $5.56,16.94$, and 0.44 , respectively(iv) $5.56,16.94$, and 5.44 , respectively

No, the answer is incorrect.
Score: 0
Accepted Answers:
(iii) $5.56,16.94$, and 0.44 , respectively
6) For a $2^{3-1}$ design with defining relation I=ABC, the experimenter wants to consider main 2 points effects and two-factor interaction effects; the alias matrix will be
$\left[\begin{array}{lll}0 & 0 & 0 \\ 0 & 0 & 1 \\ 0 & 1 & 0 \\ 1 & 0 & 0\end{array}\right]$
$\left[\begin{array}{lll}0 & 0 & 0 \\ 1 & 0 & 1 \\ 1 & 1 & 0 \\ 1 & 0 & 0\end{array}\right]$
$\left[\begin{array}{lll}1 & 0 & 0 \\ 0 & 0 & 1 \\ 0 & 1 & 0 \\ 1 & 0 & 0\end{array}\right]$
$\left[\begin{array}{lll}0 & 0 & 0 \\ 0 & 0 & 1 \\ 0 & 1 & 0 \\ 1 & 0 & 1\end{array}\right]$

No, the answer is incorrect.
Score: 0
Accepted Answers:
$\left[\begin{array}{lll}0 & 0 & 0 \\ 0 & 0 & 1 \\ 0 & 1 & 0 \\ 1 & 0 & 0\end{array}\right]$
7) Plackett-Burman designs can be used for $\mathbf{N}$ number of runs. The value of 2 points N may be:
$\mathrm{N}=12$
N=24
All of these.
No, the answer is incorrect.
Score: 0
Accepted Answers:
All of these.

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