

$$SN = -10\log^{\Sigma\left(\frac{1}{Y^2}\right)}/_n$$

None of the above

No, the answer is incorrect. Score: 0

Accepted Answers:

$$SN = 10\log\left(\frac{\bar{Y}^2}{S^2}\right)$$

1 p. 5) Which one of the following statement is wrong in reference to one-factor-at-a-time (OFAT) experimentation strategy?

- Vary factors together in a specific manner.
- Involving the testing of factors, or causes, one at a time
- OFAT requires more runs for the same precision in effect estimation
- OFAT can be more effective than fractional factorials under certain conditions

No, the answer is incorrect.

Score: 0

Accepted Answers: Vary factors together in a specific manner.

6) An investigation is consolidate to examine the distortion of shaft bearing in Air conditioner. 1 point Two factors were included for finding out the effects, i.e. size of the gear (Y1) and the part positioning (Y2). A study of eight gears for each tooth size and part positioning combination is displayed in the following Table.

	Part Positioning		
Tooth size	Y2=Low	Y2=High	
Y1=Low	28.0	23.5	
	26.5	13.5	
	36.0	21.5	
	12.5	6.0	
	41.5	-14.5	
	21.0	14.0	
	20.0	13.0	
	24.5	19.0	
Y1=High	27.5	7.5	
	39.5	21.5	
	21.0	10.0	
	17.0	11.0	
	27.0	14.5	
	24.0	13.5	
	28.0	17.5	
	27.5	16.5	

What will be the effect of low level and high level of apparatus size?

- A rise from 19.125 to 20.21875 because of change is made from high level to low level effect
- A drop from 19.125 to 20.21875 because of change is made from high level to low level effect
- A drop from 19.125 to 20.21875 because of change is made from low level to high level effect
- A rise from 19.125 to 20.21875 because of change is made from low level to high level effect

No, the answer is incorrect. Score: 0

Accepted Answers:

A rise from 19.125 to 20.21875 because of change is made from low level to high level effect

7) What will be the effect of low level and high level of part positioning?

- A drop from 26.34375 to 13 because of change is made from high level to low level effect.
- A rise from 26.34375 to 13 because of change is made from high level to low level effect.
- A drop from 26.34375 to 13 because of change is made from low level to high level effect.

1 point

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A rise from 26.34375 to 13 because of change is made from low level to high level effect

No, the answer is incorrect. Score: 0

Accepted Answers:

A drop from 26.34375 to 13 because of change is made from low level to high level effect.

8) Following table is an example of analysis of Fire lighting coil to determine if it will

1 point

Factor	Low level	High level	Factor type	ļ	
Water pressure	10 PSI	20 PSI	?		5
Seal Material	Silicone	Iron	?		
Type of salt	Detroit Blue	Chicago Pink	?		
 N, D, N D, D, N D, N, D N, D, D 					i 8
No, the answer is in Score: 0	ncorrect.				
Accepted Answers: N, D, N	:				
9) The factors in a	factorial design i	s the dependent v	ariable.		1 point
TrueFalse					
No, the answer is in Score: 0	ncorrect.				
Accepted Answers: False	:				
10)The appropriate	statistical test for	r a factorial desig	n is t-test.		1 point
TrueFalse					
No, the answer is in Score: 0	ncorrect.				
Accepted Answers: False	:				
11)In factorial designed treatments of and	gns, the response other in influenci	produced when the response version of the response ver	he treatments of o ariable is known	one factor interact with as the main effect.	1 poin
TrueFlase					
No, the answer is in Score: 0	ncorrect.				
Accepted Answers: Flase	:				
12)RSM deals with	technique for stu	udying multiple re	esponse.		1 point
TrueFalse					
No, the answer is in Score: 0	icorrect.				
Accepted Answers: True	:				
13)Mr Bibekanand orkshop of manufa laintainability (M)	performed an RS acturing, for this and force (F). Th	SM (response surf experiment they a ne correct equation	ace methodology ssumed three dif n for RMS exper) experiment to design a ferent factors durability (iment is	1 poin (D),

 $Y = a_1 + a_1 D + a_2 M + a_3 F + a_{12} D^2 + a_{13} M^2 + a_{23} F^2 + a_{11} DM + a_{22} MF + a_{33} MF + a_{$ True

No, the answer is incorrect. Score: 0		
Accepted Answers: Flase		
14)Which of the statements is	/are correct.	1 p
 A confounding variable independent variable. The control variable is the course of the investigat An independent varia All of the statement is of 	e is an outside influence that changes the effect of a dependent and the experimental element which is constant and unchanged through tion. ble is the variable being tested and measured in a scientific experim correct.	hou nen
No, the answer is incorrect. Score: 0		
Accepted Answers: A confounding variable is an independent variable. The control variable is the en- throughout the course of the	n outside influence that changes the effect of a dependent and xperimental element which is constant and unchanged investigation.	
15)Which of the statements is	/are correct.	1 p
 Repetition occurs when investigation. Replication occurs when investigation. Repetition occurs when Replication occurs when 	n multiple sets of measurements are made during one scientific en multiple sets of measurements are made during one scientific n a scientific investigation is reproduced by another person. en a scientific investigation is reproduced by another person.	
No, the answer is incorrect. Score: 0		
Accepted Answers: Repetition occurs when multi investigation. Replication occurs when a s	tiple sets of measurements are made during one scientific cinvestigation is reproduced by another person.	

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