Time left 0:25:35

Question 11

Not yet answered

Marked out of 1.00

Flag question

If the following table shows the actual demand and the forecast; estimate the "mean absolute percent deviation"

Period	Demand	Forecast
1	45	67
2	70	91
3	100	120
4	43	61

- [x] a. 20.25
- [ ] b. 41.1
- [ ] c. 13.1
- [ ] d. 35.18
- [ ] e. 25.2

Clear my choice

Quiz

1 7 13

Finish

Time left 0:12:09

Question 13

Not yet answered

Marked out of 1.00

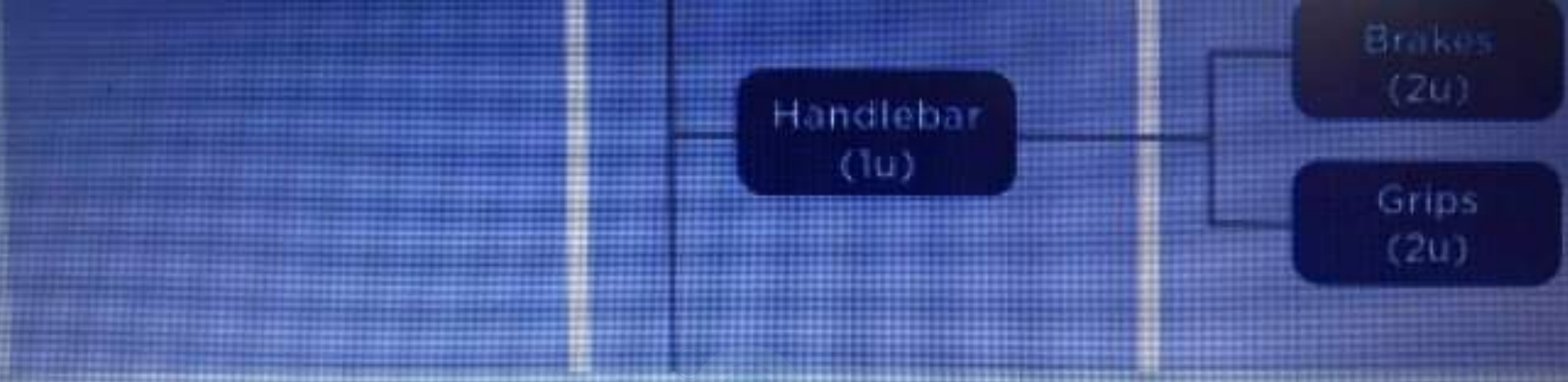
Flag question

Use Multiplicative seasonal forecasting to predict Quarter 1 (A) in Year 3

Quarter	Year 1	Year 2	Year3
1	45	67	A
2	70	91	B
3	100	120	C
4	43	61	D
Total	258	339	431

- a. 159.8
- b. 61.3
- c. 116.3
- d. 80.2
- e. 74.7

Clear my choice



- a. 144
- b. 5
- c. 4
- d. 72
- e. 72

Clear my choice

Question **14**

Not yet answered

Marked out of 1.00

Flag question

Time left 0:06:32

For the following developed MPS ; The value of K is

Item: Product A	Order Policy: 50 units									
	Lead Time: 1 week									
Quantity on Hand 5	**1**	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**
Forecast	**10**	**10**	**30**	**10**	**7**	**3**	**30**	**20**	**40**	**20**
Customer orders (booked)	**45**	**20**	**5**	**8**	**0**	**2**	**0**	**10**	**7**	**0**
Projected on-hand inventory	A	B	C	D	E	F				
MPS quantity	50	G	H	I						
MPS start										
Available-to-promise (ATP) inventory	L	K	M	N	O	P				

- a. 48
- b. 33
- c. 10
- d. 17
- e. 40

Clear my choice

Time left 0:20:57

Question 10

Not yet answered

Marked out of 1.00

Flag question

Bird feeder sales are 30 units per week, and the supplier charges $25 per unit.
The cost of placing an order (S) with the supplier is $10.
Annual holding cost (H) is 25% of a feeder's value (ie 0.25 * 25$) , based on operations 52 weeks per year.
what is the economic order quantity for the bird feeder

- a. 100
- b. 71
- c. 81
- d. 120
- e. 55

Clear my choice

Next page

Marked out of 1.00

Flag question

Time left 0:20:04

Lead Time: 2 weeks

	Week									
	1	2	3	4	5	6	7	8	9	10
Gross requirements		200		400		240	360	120		
Scheduled receipts	200									
Projected on-hand inventory	200	0	0	0	0	0	0	0	0	0
Planned receipts				A	B	C	D	E		
Planned order releases		A	B	C	D	E				

- a. 120
- b. 360
- c. 0
- d. 400
- e. 240

Clear my choice

13 14

Finish att

Question 7

Not yet answered

Marked out of 1.00

Flag question

Time left 0:32:20

Compute a three-week moving average forecast for the arrival of medical clinic patients in week 6.

The numbers of arrivals for the past six weeks were as follows:

Period	Arrivals
1	400
2	300
3	350
4	500
5	550
6	525

- a. 383.3
- b. 466.7
- c. 500
- d. 350
- e. 550

Clear my choice

Time left 0:34:3

Question 6

Not yet answered

Marked out of 1.00

Flag question

For the trend adjusted exponential smoothing with alpha=0.1 and beta=0.2; what is the forecast for period 3

t	Demand Dt	Average At	Trend Tt	Forecast Ft
	1	50	45	3
	2	60		48
	3	65		??

- a. 51.84
- b. 52.44
- c. 53.31
- d. 49
- e. 48

Clear my choice

Next page

Time

Question 5

Not yet answered

Marked out of 1.00

Flag question

Consider patient arrivals in the following table

Using $\alpha = 0.30$, calculate the exponential smoothing forecast for week 6.

Period	Arrivals	Forecast
1	400	
2	300	
3	350	350
4	500	?
5	550	?
6	525	?

E

- a. 360
- b. 501
- c. 395
- d. 435
- e. 441.5

Clear my choice

answered

Marked out of 1.00

Flag question

Item: B

Lot Size: POQ (

Lead Time: 1 we

Time left 0:53:17

	Week									
	1	2	3	4	5	6	7	8	9	10
Gross requirements		100		200		100	120	60		
Scheduled receipts										
Projected on-hand inventory	20	200	200	0	0	??				
Planned receipts		280				B				
Planned order releases	280				B					

- a. 360
- b. 280
- c. 50
- d. 120
- e. 310

Question 3

Not yet answered

Marked out of 1.00

Flag question

For the following developed MPS ; the value E is

Time left 0:47:34

Item: Product A	Order Policy: 50 units									
	Lead Time: 1 week									
Quantity on Hand 5	1	2	3	4	5	6	7	8	9	10
Forecast	10	10	30	10	7	3	30	20	40	20
Customer orders (booked)	45	20	5	8	0	2	0	10	7	0
Projected on-hand inventory	A	B	C	D	E	F				
MPS quantity	50	G	H	I						
MPS start										
Available-to-promise (ATP) inventory	L	K	M	N	O	P				

- a. 10
- b. 30
- c. 43
- d. 17
- e. 40

Clear my choice

Time left 0:00:20

Question 15

Not yet answered

Marked out of 1.00

Flag question

Bird feeder sales are 30 units per week, and the supplier charges $25 per unit.

The cost of placing an order (S) with the supplier is $10.

Annual holding cost (H) is 25% of a feeder's value, based on operations 52 weeks per year.

What is the annual cycle-inventory cost if bird feeders order in quantities of 200

- a. 703
- b. 531
- c. 680
- d. 802
- e. 781

Clear my choice

Time left

Question 4

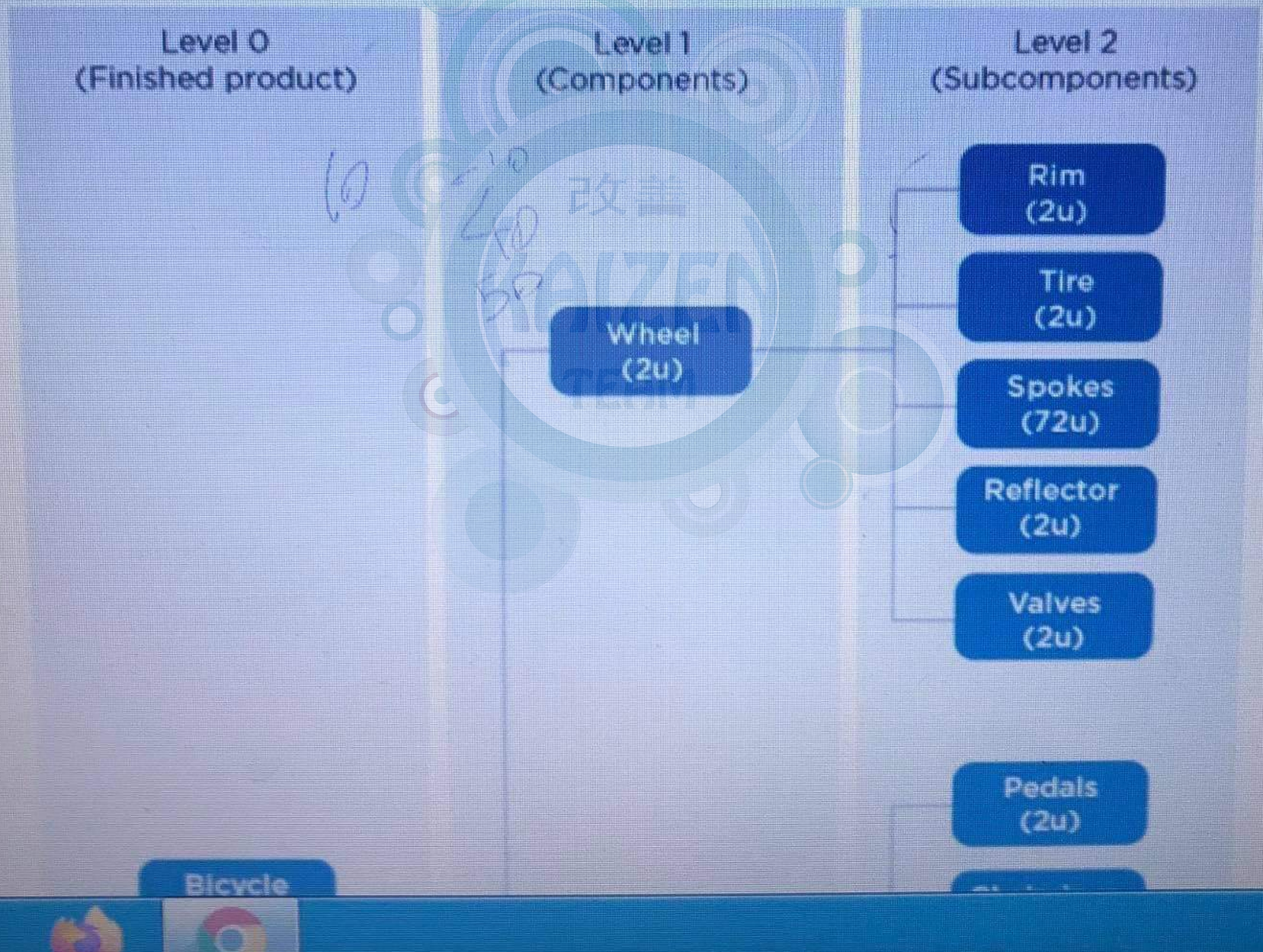
Not yet answered

Marked out of 1.00

Flag question

The bill of material for the bicycle is

How many sprockets are needed for one bicycle



Time left 0:28:32

Question 9

Not yet answered

Marked out of 1.00

Flag question

Records show that the demand for product during the lead time is normally distributed, with an average of 100 boxes and standard deviation of = 9.

What safety stock should be carried for a 99 percent cycle-service level? Z=2.33

- a. 51
- b. 12
- c. 15
- d. 45
- e. 21

Clear my choice

Next page

Time left 0:57:19

Question 1

Not yet answered

Marked out of 1.00

Flag question

Demand for chicken soup is always 25 cases a day and lead time is always 4 days.

Chicken soup was just restocked, leaving an on-hand inventory of 100 cases. No backorders currently exist.

There is an open order for 150 cases. What is the inventory position IP

- a. 200
- b. 150
- c. 250
- d. 300
- e. 100

Clear my choice

Next page

Question 8

Not yet answered

Marked out of 1.00

Flag question

For the following developed MPS table what is the value of B

Time left 0:31:10

Item: Product A	Order Policy: 50 units									
	Lead Time: 1 week									
Quantity on Hand 5	**1**	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**
Forecast	**10**	**10**	**30**	**10**	**7**	**3**	**30**	**20**	**40**	**20**
Customer orders (booked)	**45**	**20**	**5**	**8**	**0**	**2**	**0**	**10**	**7**	**0**
Projected on-hand inventory	A	B	C	D	E	F				
MPS quantity	50	G	H	I						
MPS start										
Available-to-promise (ATP) inventory	L	K	M	N	O	P				

- a. 20
- b. 40
- c. 10
- d. 17
- e. 13

Clear my choice