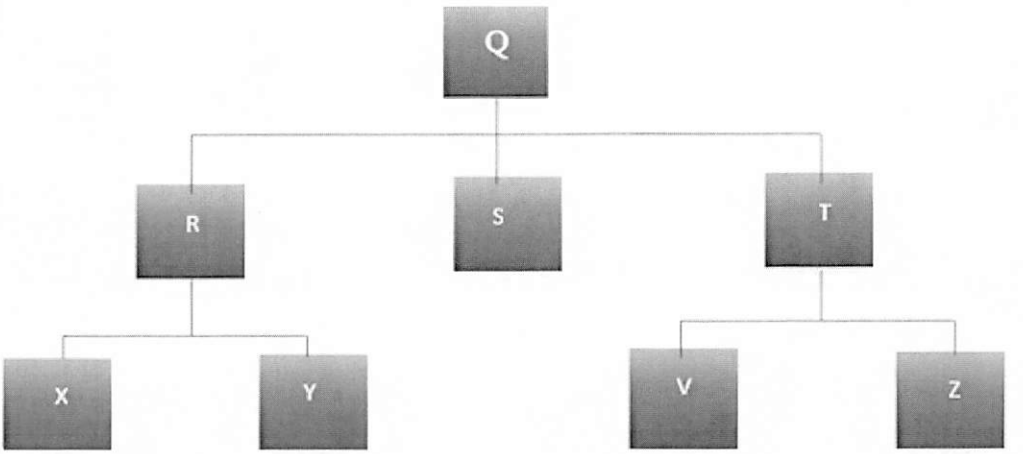
Question 1 of 6
- / 5

Will's Welded Widgets (WWW) makes its Q Model from components R, S, and T. Component R is made from 3 units of component X and 3 unit of component Y. Component T is made from 1 unit of component V and 2 units of component Z.

Calculate the gross requirements for each of the components when the company plans to build 100 of its Q Model if you have these inventories: 100 units of component T and 150 units of component R, using the given information:

Item	Usage per Parent
Q	-
R	2
S	1
T	1
X	3
Y	3
V	1
Z	2



Put the answers down into the table: *(If answer is zero, please enter 0, do not leave any fields blank.)*

Product	Gross Requirements
Q	enter a number of units
R	enter a number of units
S	enter a number of units
T	enter a number of units
X	enter a number of units
Y	enter a number of units
V	enter a number of units
Z	enter a number of units

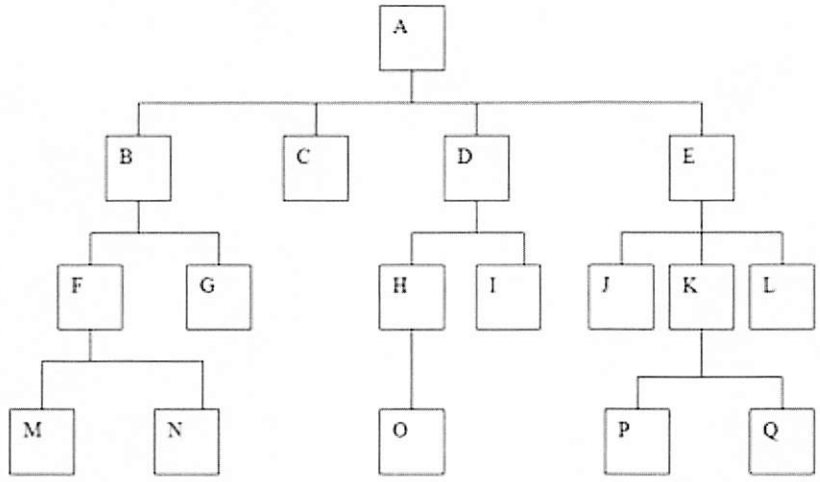
Question 2 of 6
- / 5

Flora's Fabulous Fontains top product is its Model A. Flora is preparing for her busy season and is building 1,800 Model A fountains. Calculate the gross requirements for each component assuming that there is no beginning inventory.

Use the following information:

Component	Immediate Parent	Usage per Parent
A	none	-
B	A	2
C	A	1
D	A	3
E	A	2
F	B	4
G	B	2
H	D	4
I	D	2

J	E	1
K	E	6
L	E	2
M	F	3
N	F	5
O	H	2
P	K	1
Q	K	2



Put the answers down into the table: *(If answer is zero, please enter 0, do not leave any fields blank)*

Component	Gross Requirement
A	enter the gross requirement
B	enter the gross requirement
C	enter the gross requirement
D	enter the gross requirement
E	enter the gross requirement
F	enter the gross requirement
G	enter the gross requirement
H	enter the gross requirement
I	enter the gross requirement
J	enter the gross requirement
K	enter the gross requirement
L	enter the gross requirement
M	enter the gross requirement
N	enter the gross requirement
O	enter the gross requirement
P	enter the gross requirement
Q	enter the gross requirement

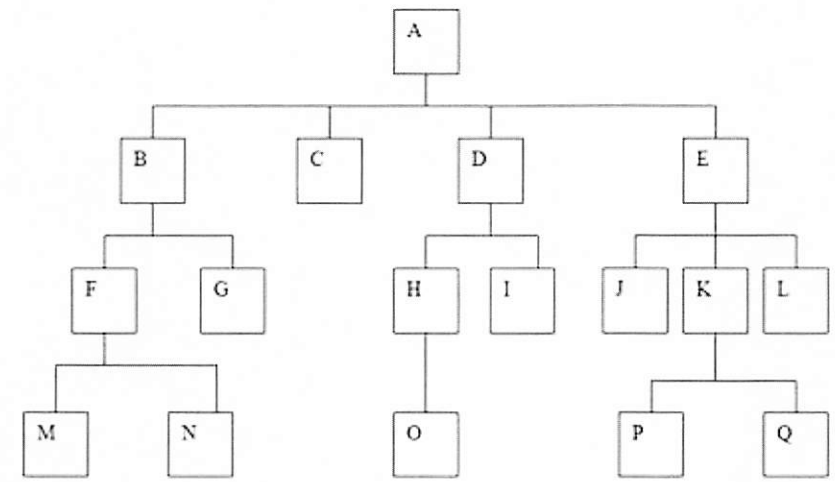
Question 3 of 6
- / 5

Flora's Fabulous Fontains top product is its Model A. Calculate the minimum replenishment time to build 2500 Model A fountains given the following beginning inventories.

Use the following information:

Component	Immediate Parent	Usage per Parent	Lead Time (weeks)	Beginning Inventory
A	none	–	2	0
B	A	2	2	250
C	A	1	6	500
D	A	3	3	750
E	A	2	3	750
F	B	4	2	3000
G	B	2	4	1000
H	D	3	2	5000
I	D	2	4	5000

J	E	1	11	1000
K	E	5	1	5000
L	E	2	4	2500
M	F	3	3	250
N	F	6	3	2560
O	H	2	4	0
P	K	1	2	500
Q	K	2	3	1000



(a) = enter a number of weeks _____ weeks

Question 4 of 6
- / 5

Jack has gathered the following information for Work Center 2, the work center that directly feeds Work Center 3. Complete the input/output analysis of Work Center 2.

Input Information (in hours)

	4	5	6	7	8
Planned input	60	70	70	80	80
Actual input	25	35	35	40	40

Output Information (in hours)

	4	5	6	7	8
Planned output	40	70	70	80	80
Actual output	45	45	45	55	80
Backlog115 hours					

Jack has asked you to calculate the following for Work Center 2.

(a)

Calculate the percentage of planned output needed to complete the planned inputs [(planned input + backlog)/ planned output] at Work Center 2.
(Round your answers to 1 decimal place, e.g. 17.5.)

	4	5	6	7	8
Percentage of planned output · 100%	enter percentages %	enter percentages %	enter percentages %	enter percentages %	enter percentages %

(b)

The parts of this question must be completed in order. This part will be available when you complete the part above.

(c)

The parts of this question must be completed in order. This part will be available when you complete the part above.

(d)

The parts of this question must be completed in order. This part will be available when you complete the part above.

Week 9 - Homework: Chapters 14 and 15

Question 5 of 6 < > - / 5

View Policies

Current Attempt in Progress

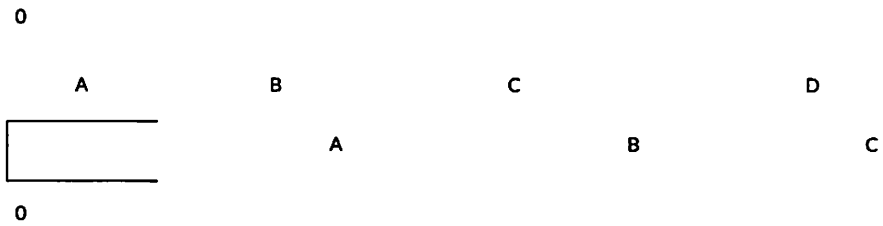
Joe's Twenty-four Seven Laundromat has the following jobs waiting to be processed. The first step of the process includes washing and drying the clothes; the second step is pressing the clothing. Joe wants to minimize the amount of time it takes to do all the jobs. The five jobs waiting to be processed are shown here.

Job	Wash and Dry (hours)	Press (hours)
A	6	3
B	3	5
C	2	3
D	7	5
E	4	3

(a)

Using FCFS, assume the jobs arrive in the order shown (A, then B, then C, etc.). Show the beginning time for each job and ending time for the whole process adding hours throughout the process.

Wash and Dry



Press

Week 9 - Homework: Chapters 14 and 15

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(b)

Question 6 of 6 <

-/5

View Policies

Current Attempt in Progress

Raquel's Landscaping Company has contracted for several landscaping jobs. Each job requires preparing the areas (identifying the locations and types of plants, preparing the soil, etc.) and then planting the trees, bushes, and shrubs. The expected time for each of the jobs is shown next.

Job	Preparing the Area (days)	Planting (days)
R	3	2
S	1	3
T	4	5
U	7	5
V	6	4
W	4	3

Raquel is concerned with efficiency. She believes it is probably more efficient to use SPT (shortest processing time) as her priority rule.

(a)

Develop a sequence using SPT based on processing time for preparing the area.
(If two of more jobs have the same processing time, list them alphabetically.)

Preparing the Area							
Planting							

eTextbook and Media

Save for Later

Attempts: 0 of 3 used Submit Answer

(b)