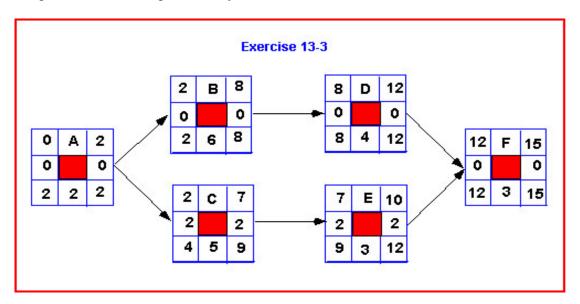
3. Given the project network and baseline information below, complete the form to develop a status report for the project at the end of period 4 and the end of period 8. From the data you have collected and computed for periods 4 and 8, what information are you prepared to tell the customer about the status of the project at the end of period 8?

The project appears to be doing nicely. In both periods 4 and 8 the cost variance is positive—+\$300 and +\$400, respectively. This suggests a pattern of good cost variance that is under budget.

The schedule variance is also positive—+\$300 and +\$400 for period 4 and period 8. Since Task D is already 25 per cent complete, Task B must have been completed at least one period early.



Exe	ercise	13-3	b					ı	rojec	t Bas	eline	(PV)								
Task	Dur.	ES	LF	SL	Budget (PV)	o '	1 2	2 (3 4	. .	5 (6	7 1	B :	9 1	0 1	1 1:	2 1	3 14	4 18
A	2	0	2	0	400	200	200													
В	6	2	8	0	2400			200	600	200	600	200	600							
С	5	2	9	2	1500			200	400	500	100	300								
D	4	8	12	0	1600									400	400	400	400			
E	3	7	12	2	900								300	400	200					
F	3	12	15	0	600													200	100	300
	Pe	riod	PV 1	otal	1	200	200	400	1000	700	700	500	900	800	600	400	400	200	100	300
С	umul	ati∨e	PV	Total		200	400	800	1800	2500	3200	3700	4600	5400	6000	6400	6800	7000	7100	7400

End of period 4

Task	Actual %	EV	AC	PV	CV	SV
	complete	\$	\$	\$	\$	\$
A	Finished	400	300	400	+100	0
В	50%	1200	1000	800	+200	+400
C	33%	500	500	600	0	-100
D	0%	0	0	0	0	0
E	0%	0	0	0	0	0
Cumul	ative totals	\$2100	\$1800	\$1800	\$+300	\$+300

End of period 8

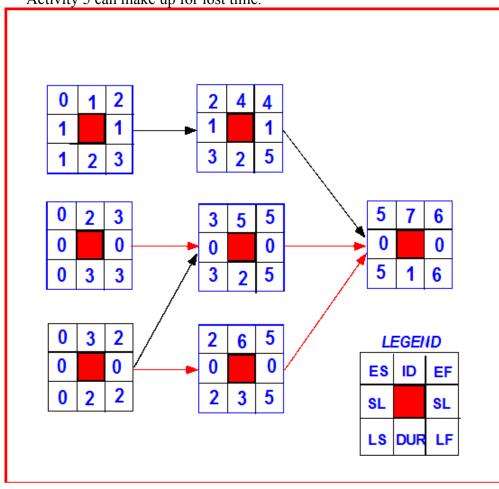
Task	Actual %	EV	AC	PV	CV	SV	
1 ask	complete	\$	\$	\$	\$	\$	
A	Finished	400	300	400	+100	0	
В	Finished	2400	2200	2400	+200	0	
C	Finished	1500	1500	1500	0	0	
D	25%	400	300	0	+100	+400	
E	33%	300	300	300	0	0	
F	0%	0	0	0	0	0	
Cumula	tive totals	\$5000	\$4600	\$4600	\$+400	\$+400	

Note: Completion of the answer sheet requires constant reference to the baseline figure.

5. Given the following project network, baseline and status information, develop status reports for periods 1–4 and complete the project summary graph (or a similar one). Report the final SV, CV, CPI and PCIB. Based on your data, what is your assessment of the current status of the project? At completion?

SV = -\$3000

After four time periods the project is roughly 77 per cent (PCIB) complete and is current getting only 83 cents worth of work for each dollar spent. The project is currently \$10 000 over budget. There is \$3000 worth of work on critical Activity 5 that has not been completed as planned so the project is behind schedule. Since so much of the project has been completed the project is expected to come in over budget. The forecast cost at completion is \$78 000 which is \$13 000 over budget. Whether the project will be completed on schedule will depend upon whether Activity 5 can make up for lost time.



S	CHED	ULE	SCHEDULE INFORMATION							BASELINE BUDGET NEEDS (\$ 000)						
ACT/ WP	DUR	ES	LF	SL	TOTAL PV	n 1	TIME		56							
1	2	0	3	1	12	4	8	2	3 4							
2	3	0	3	0	15	3	7	5								
3	2	0	2	0	8	4	4									
4	2	2	5	1	6			3	3							
5	2	3	5	0	10				6	4						
6	3	2	5	a	9			3	3	3						
7	1	5	6	0	5						5					
	TOTAL	. PV	BYP	ERIOD)	11	19	11	12	7	5					
- au	MULA	TIVE	PV B	YPER	RIOD	11	30	41	53	60	65					

Status report: Ending period 1								
Task	% complete	EV	AC	PV	CV	SV		

Task	% complete	EV	AC	PV	CV	SV
1	50%	6	6	4	0	+2
2	40%	6	8	3	-2	+3
3	25%	2	3	4	-1	-2
Cumul	ative totals	14	17	11	-3	+3

Status report: Ending period 2 (\$000)

Task	% complete	EV	AC	PV	CV	SV
1	Finished	12	13	12	-1	0
2	80%	12	14	10	-2	+2
3	75%	6	8	8	-2	-2
Cumul	ative totals	30	35	30	-5	0

Status report: Ending period 3 (\$000)

Task % complete EV AC PV CV SV

Task	% complete	EV	AC	PV	CV	SV
1	Finished	12	13	12	-1	0
2	80%	12	15	15	-3	-3
3	Finished	8	10	8	-2	0
4	50%	3	4	3	-1	0
5	0%	0	0	0	0	0
6	33.3%	3	4	3	-1	0
Cumul	ative totals	38	46	41	-8	-3

Status report: Ending period 4									
Task	% complete	EV	AC	PV	CV	SV			
1	Finished	12	13	12	-1	0			
2	Finished	15	18	15	-3	0			
3	Finished	8	10	8	-2	0			
4	Finished	6	8	6	-2	0			
5	30%	3	3	6	0	-3			
6	66.7%	6	8	6	-2	0			
7	0%	0	0	0	0	0			
Cumul	ative totals	50	60	53	-10	-3			

PCIAB = EV / BAC = 50/65 = 0.768

CPI = EV/AC = 50/60 = 0.833

CV = -\$10,000

SV = -\$3000

ETC = (BAC-EV)/EV/AC = (65-50)/50/60 = 15/0.833 = 18000

EAC = ETC + AC = 18000 + 60000 = \$78000

After four time periods the project is roughly 77 per cent (PCIB) complete and is current getting only 83 cents worth of work for each dollar spent. The project is currently \$10 000 over budget. There is \$3000 worth of work on critical Activity 5 that has not been completed as planned so the project is behind schedule. Since so much of the project has been completed the project is expected to come in over budget. The forecast cost at completion is \$78 000 which is \$13 000 over budget.

Whether the project will be completed on schedule will depend upon whether Activity 5 can make up for lost time.

