## **Scenario**

Key Assumptions and Result

**Accounts Payable** 

**NWC Level** 

**NWC Increase** 

0

0

Pens Plus is considering a contract with a stationary wholesaler for Pens Plus to produce and sell to the whole Terms of the contract call for delivery of 2 million pens in each of the first two years and 3 million pens in each The required plant and equipment costs AED5,250,000 and would be fully depreciated (straight-line) over the All costs are variable and estimated to be AED0.35 per pen. Each pen will be sold to the wholesaler for AED1 The pens will be delivered monthly in equal volumes. After receiving the pens, the wholesaler will take 3 mon Inventories take up 10% of variable cost while accounts payable are 20% of variable cost.

The company pays taxes at a 40% rate and has a discount rate of 10%. Should Pens Plus agree to the contra **Hint**: Start by filling out the key assumptions table based on the description above. Continue by completing the question marks using the information above. Then complete the black questions marks by the information you used. Some further hints are provided in the boxes below.

Key Assumption	is and Result					
Variable Cost (AED per unit) Price (AED per unit) Tax Rate Discount Rate		0.35	1.05 Receivables (% of sales) 5250000 Inventory (% of variable cos Payables (% of variable cos		5,250,000	NPV
					25% 10%	IRR
		10%			20%	
AED / Year	0	1	2	3	4	5
Units		2	2	3	3	3
Revenue		2,100,000	2,100,000	3,150,000	3,150,000	3,150,000
Variable Cost		700,000	700,000	1,050,000	1,050,000	1,050,000
Depreciation		1,050,000	1,050,000	1,050,000	1,050,000	1,050,000
Operating Income		350,000	350,000	1,050,000	1,050,000	1,050,000
Taxes		140,000	140,000	420,000	420,000	420,000
NOPAT	0	210,000	210,000	630,000	630,000	630,000
Depreciation	0	1,050,000	1,050,000	1,050,000	1,050,000	1,050,000
<b>NWC Increase</b>	455,000	0	227,500	0	0	0
CapEx	5,250,000	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>
FCF	(5,705,000)	1,260,000	1,032,500	1,680,000	1,680,000	1,680,000
NWC Calculation	n					
Accounts Receivable		525,000	525,000	787,500	787,500	787,500
Inventory		70,000	70,000	105,000	105,000	105,000

140,000

455,000

0

210,000

682,500

227,500

210,000

682,500

0

210,000

682,500

0

140,000

455,000

455,000

lesaler a customized pen.
h of Years 3, 4, and 5.
five years, with no salvage value.
1.05.
ths to pay.
act?

he blue combining

-\$253,420 8.36%

6

0

0 (682,500)