





Course Structure

Block	Topic
	Preparation: recap double-entry bookkeeping (online, self-study)
1	Key Concepts
2	Acquisition Method
3	Consolidation
4	Subsequent Consolidation Goodwill Impairment
5	Joint Arrangement and Investments at Equity Changes in Control
6	Analyzing Consolidated F/S

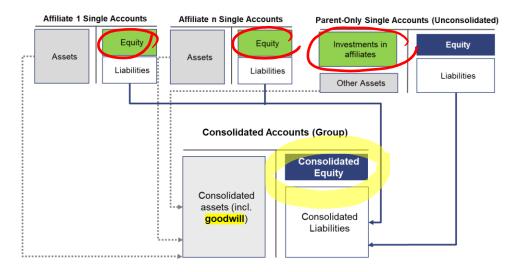
Course Structure

Block	Topic
3	Consolidation
3.1	Capital Consolidation
3.2	Intra-Group Transactions



- How can we combine the financial statements of the parent company and a subsidiary?
- How do we avoid double-counting of equity capital within the corporate group?

Consolidation



- Bringing together assets and liabilities of different entities in the corporate group
- Objective: consolidated financial statements represent financial position of the corporate group as one economic entity
- Features:
 - Position "Investments in affiliates" from parent company's unconsolidated accounts is resolved
 - (Revalued) assets and liabilities from affiliates are combined with parent's other assets and liabilities (at historical cost)
 - Goodwill is recognized on the consolidated financial statements
 - Consolidated equity without non-controlling interests = parent's equity

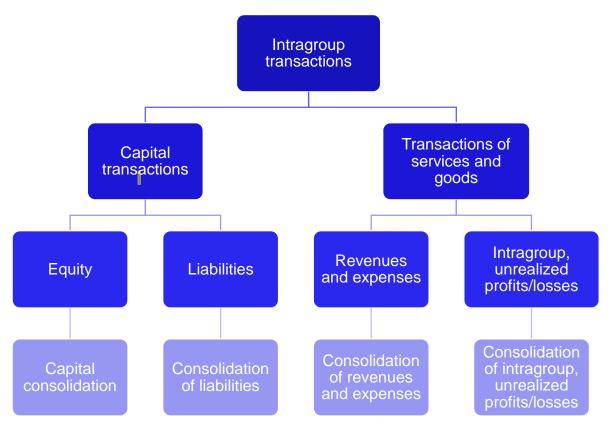


Preparation for consolidation

- Uniform accounting policies
- Reporting date
- Foreign currency translation
- Combing like items

Consolidation: Overview

IFRS 10. B86: intragroup assets and liabilities, equity, income, expenses and cash flows relating to transactions between entities of the group are eliminated in full.



Note: Deferred taxes may additionally occur due to consolidation.

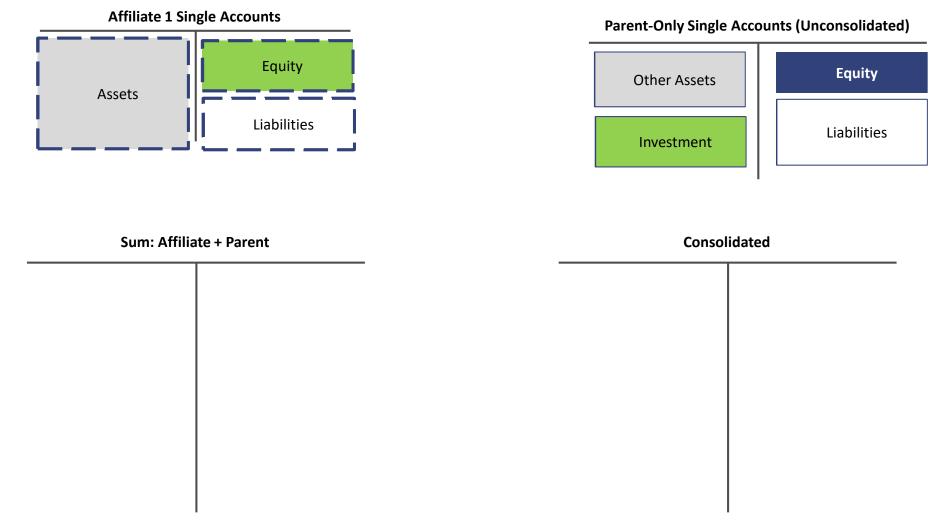


Consolidation of capital

- Consolidation of capital = Elimination of a double count:
 Sum balance sheet contains
 - the equity of the subsidiary (from the subsidiary's balance sheet)
 - the purchase price of the subsidiary (from the parent's balance sheet)
 - all assets and liabilities of the subsidiary (from the subsidiary's balance sheet)
- Consolidation of capital (acquisition method)
 - Offset purchase price (investment book value) against equity (only assets and liabilities will remain)
 - Problem: Usually, the amount of equity and the purchase price do not match (e.g. hidden reserves; control premium)
- Solution:
 - Recognize assets and liabilities (= net assets) acquired at fair value
 - Recognize any residual as goodwill or bargain purchase

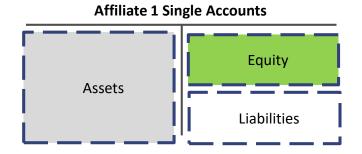


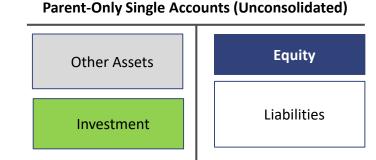
Consolidation – basic logic Example without revaluation, goodwill, or NCI

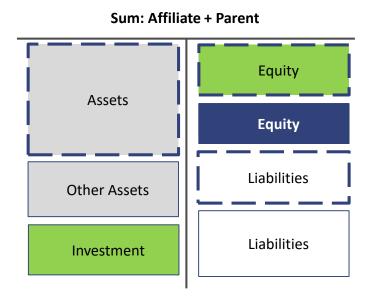


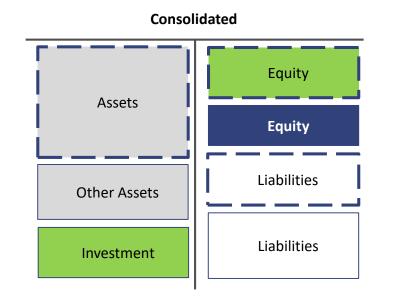


Consolidation – basic logic Example without revaluation, goodwill, or NCI



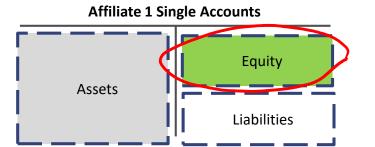






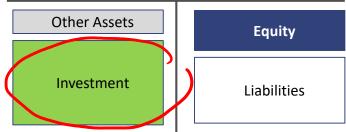


Consolidation – basic logic What if Investment > Equity (Book Value)?

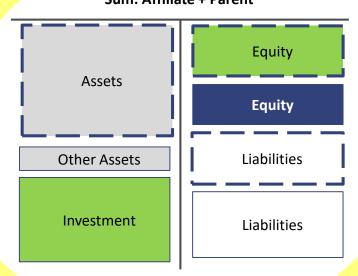




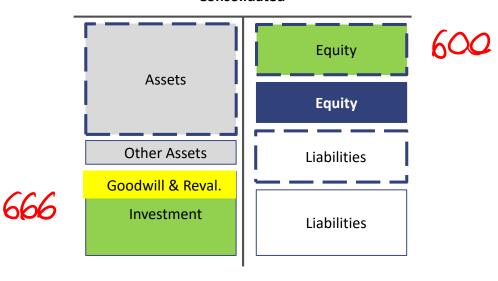
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Sum: Affiliate + Parent



Consolidated



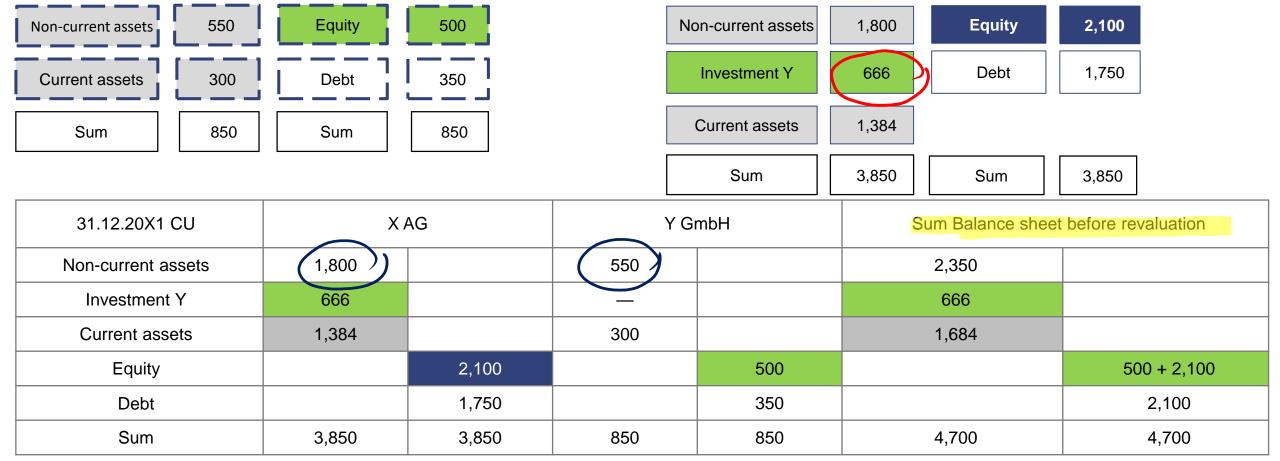


Stylized example; simplifying assumption: 100% stakes in all affiliates (i.e., there are no so-called non-controlling interests)
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Balance sheet of Y GmbH as of 31.12.20X1 (in CU)

X AG purchases 100% of Y GmbH's shares for 666 CU on December 31, 20X1. Account for the business combination and consider that the non-current assets include hidden reserves of 100 CU. For now, neglect deferred taxes!

Balance sheet of X AG as of 31.12.20X1 (in CU)



Acquisition Price	
- Equity	
- Fair Value Adjustments and Other Identifiable Assets	
Goodwill	

31.12.20X1 CU	Revaluation		Sum Balance		Consolidation		Consolidated	
Non-current assets								
Goodwill								
Investment Y								
Current assets								
Equity								
Debt								
Sum								

Dr Non-current Cr. Equity 100

1800 Chu e 1 + 650 C	78.	Solution Parend Fair Vale	
Acquisition Price		666	vz4)
- Equity		500	U
- Fair Value Adjustments and Other Identifiable As	sets	100	
Goodwill		66	

31.12.20X1 CU	Revaluation		Sum Balance		Consolidation		Consolidated	
Non-current assets	100		2,450				2,450	
Goodwill					66		66 🗸	
Investment Y			666			666		
Current assets			1,684				1,684	,
Equity		100		2,100	600			2,100 🗸
Debt				2,100				2,100
Sum			4,800	4,800			4,200	4,200

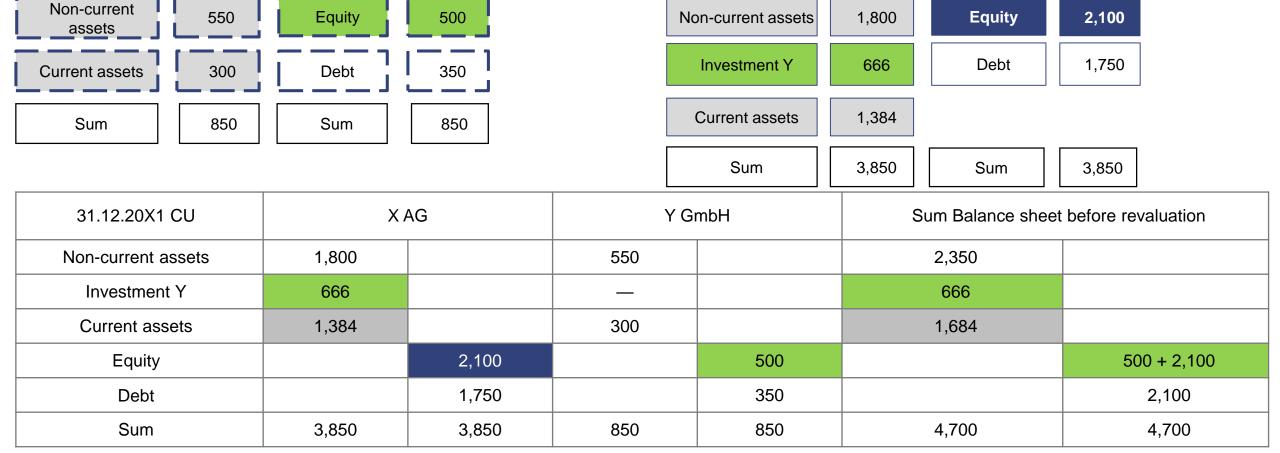
solutions 4:15

Balance sheet of Y GmbH as of 31.12.20X1 (in CU)

Consolidation of capital – exercise 2

X AG purchases 100% of Y GmbH's shares for 666 CU on December 31, 20X1. Account for the business combination and consider that the non-current assets include hidden reserves of 100 CU. **Adaptation**: Also, consider deferred taxes (tax rate 30%)!

Balance sheet of X AG as of 31.12.20X1 (in CU)



DI FQ 570 CC Inviny 666 Goodw. 96

Acquisition Price	666	
- Equity	500	
- Fair Value Adjustments and Other Identifiable Assets	00	201.
+ Tax Liability Deferred tex 1	30	1+5
Goodwill	96	

31.12.20X1 CU	Revaluation		Sum Balance		Consolidation		Consolidated	
Non-current assets	(100)		2,450	•			2450	
Goodwill					96		96	
Investment Y			666			666		
Current assets			1,684				1,684	
Equity	30	(100)		570+	570		·	2,100
Debt				2,100				2.100
Deferred tax liability		30		30				30
Sum			4,800	4,800)		4,230	4230



Acquisition Price	666
- Equity	500
- Fair Value Adjustments and Other Identifiable Assets	100
+ Tax Liability	30
Goodwill	96

31.12.20X1 CU	Revaluation		Sum Balance		Consolidation		Consolidated	
Non-current assets	100		2,450				2,450	
Goodwill					96		96	
Investment Y			666			666		
Current assets			1,684				1,684	
Equity	30	100		570+ 2,100	570			2,100
Debt				2,100				2,100
Deferred tax liability		30		30				30
Sum			4,800	4,800			4,230	4,230



500

Balance sheet of Y GmbH as of 31.12.20X1 (in CU)

550

Equity

Non-current

<u>Adaption</u>: X AG purchases 60% of Y GmbH's shares for 400 k€ on December 31, 20X1. Account for Non-controlling interest a) at their proportionate share of Y GmbH's revalued equity or b) at fair value. The Non-current assets include hidden reserves of 100 k€. Also, consider deferred taxes (tax rate 30%)!

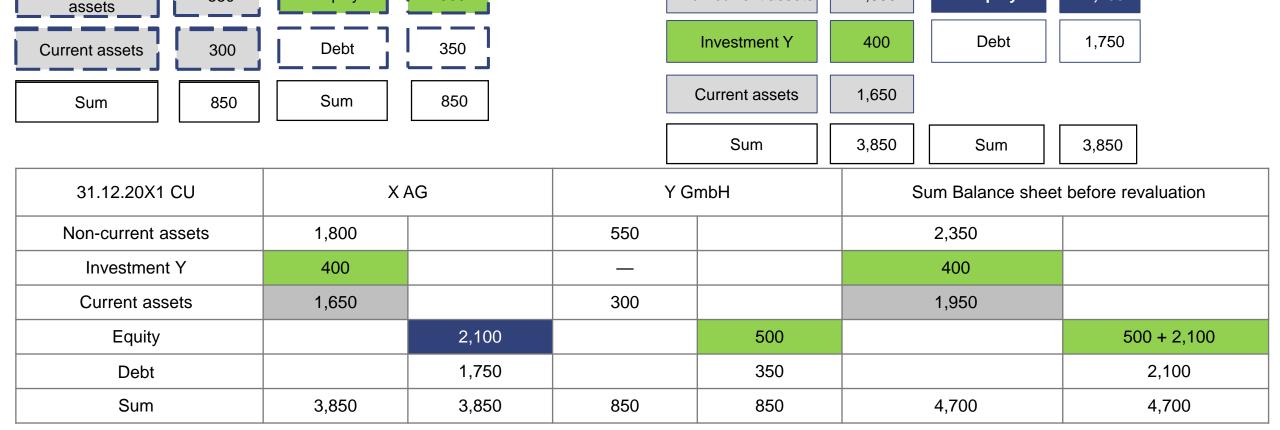
Non-current assets

Balance sheet of X AG as of 31.12.20X1 (in CU)

1.800

Equity

2,100



Consolidation of capital – exercise 3 solutions

Acquisition Price (100%)	66 t
- Equity	500
- Fair Value Adjustments and Other Identifiable Assets	100
+ Tax Liability	30
Goodwill (100%) FUU	97
Goodwill (60%) Partial	58

31.12.20X1 CU	Revaluation	Sum Balance	Consolidation	Consolidated
Non-current assets				
Goodwill				
Investment Y				
Current assets				
Equity				
Non-controlling interest				
Debt				
Deferred tax liability				
Sum				

solutions

Dr. Goodwill 58 Cr. Inv.

Acquisition Price (100%)	667
- Equity	500
- Fair Value Adjustments and Other Identifiable Assets	100
+ Tax Liability	30
Goodwill (100%)	97
Goodwill (60%)	97 x 0.6 = <u>58</u>

31.12.20X1 CU	Reva	uation Sum Balance		Consolidation		Consolidated		
Non-current assets	100		2,450				2,450	
Goodwill					58	/	58	
Investment Y			400			400		
Current assets			1,950			,	1,950	
(payent)	30	100		570 + 2,100	342			2,100
Non-controlling interest						228		228
Debt				2,100				2,100
Deferred tax liability		30		30				30
Sum			4,800	4,800			4,458	4,458



Consolidation of capital – exercise 3 solutions

31.12.20X1 CU	Revaluation		Sum Balance		Consolidation		Consolidated	
Non-current assets								
Goodwill								
Investment Y								
Current assets								
Equity								
Non-controlling interest								
Debt								
Deferred tax liability								
Sum								



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Consolidation of capital – exercise solutions

The shares of Y's equity that are not held by X have to be recognized as non-controlling interest; they are recognized at fair value As fair value of 60% of Y GmbH = 400, 100% = 666.66 and 40% = 266.66. The difference between 266.66-228 is recognized in goodwill and, likewise, non-controlling interest are increased.

31.12.20X1 CU	Reval	uation	Sum Balance		ance Consolidation		Consolidated		
Non-current assets	100		2,450				2,450	/	
Goodwill					97/58		97		
Investment Y			400			400			
Current assets			1,950				1,950		
Equity	30	100		570 + 2,100	342 228	_		2,100	
Non-controlling interest				2,100	2	228 39		267	
Debt				2,100				2,100	
Deferred tax liability		30		30				30	
Sum			4,800	4,800			4,497	4,497	2

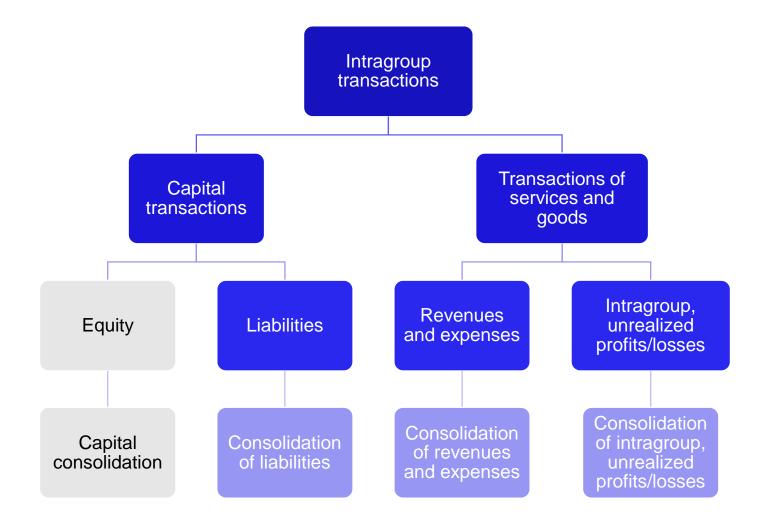
Course Structure

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3.1	Capital Consolidation	
3.2	Intra-Group Transactions	



How do we ensure that the consolidated financial statements of the group capture its transactions with third parties?

Other consolidation procedures





Intra-Group Liabilities

- Elimination of intra-group liabilities important to get meaningful consolidated leverage ratios
 - Assess leverage of group based on obligations owed to third parties
- Case 1: Liability (e.g., loan) of one entity corresponds to asset (e.g., financial instrument) of another entity within the group (pure financial transaction)
 - "Zero sum game"
 - Netting out of positions in sum balance ("shortening")
- Case 2: One entity records a liability (e.g., provision) and corresponding expense, but the other entity
 within the group does not record a corresponds asset, or a lower asset
 - Result of conservative accounting practices
 - Need to eliminate positions on the balance sheet as well as corresponding earnings/expenses

Intra-Group Liabilities



Subsidiary recognizes a warranty provision of 25 CU (NPV) in 20X1 for warranty payments that it will possibly have to make to Parent.

What are the necessary journal entries to eliminate the transaction in the consolidated accounts of 20X1? Consider a tax rate of 40%.

Intra-Group Liabilities





subs income - retained carnings

20X1:

Solution

Journal entry at Subaldiary to recognize provision in unconsolidated accounts:

Dr.

Cr.

Provision 25

→ Consolidation needs to eliminate provision and expense for building provision

Consolidation journal entry:

Expense

Dr. Provision

Cr.

Expense 25

Dr. Deferred tax expense

Cr.

Cr.

Cr.

DTL 10

(Profit of the consolidated accounts increases by 15 CU (25 CU – 10 CU).

(no climination of acounts action in target's tax aco/)

- Future periods:

→ Consolidation needs to eliminate pre-existing "stock" of provision (25 CU) and offset the reserve and deferred taxes.

Dr.

Provision

Reserve (equity)

DTL

10

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When goods/services are sold from one group company to another, this will affect their unconsolidated financial statements:

- Sales / Cost of Sales
- Changes in Inventory
- Changes in Cash



- From the perspective of the group, the transaction should have no effect on the consolidated statements.
 - Transactions should only be realized to the extent that they are conducted with third parties.
- Problem: intra-group profits/losses do not cancel out "automatically"



- Sister Company (S) sells inventory to Brother Company (B)
 - Carrying amount at Sister (unconsolidated financial statements): 8 CU
 - Purchase price: 10 CU

<u>Journal entries Sister (unconsolidated):</u>

Dr. Cash 10 CU

Cr. Revenue 10 CU

Dr. Cost of Sales 8 CU Cr. Inventory 8 CU

→ Net profit (intra-group): 2 CU

Journal entries Brother (unconsolidated): Dr. Inventory 10 CU

Cost of inventory to group (8 CU) + intra-group profit (2 CU)





- Sister Company (S) sells inventory to Brother Company (B)
 - Carrying amount at Sister (unconsolidated financial statements): 8 CU
 - Purchase price: 10 CU
- Consolidation: Eliminate sales transaction

Dr. Revenue 10 CU

Cr. Cost of Sales 8 CU

Cr. Inventory 2 C

Elimination of intra-group profit of 2, "contained" in

- Tax effects (tax rate: 30%):
- effects (tax rate: 30%):

 Sister's (= group's) current tax, based on profit in unconsolidated F/S: 2 CU * 30% = 0.6 CU
 - Temporary difference between inventory in Brother's tax statements (unconsolidated) (10 CU) and group's consolidated IFRS statements (8 CU) → 2 CU * 30% = 0.6 CU





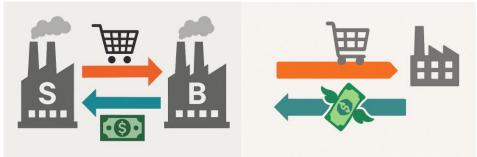
- Sister Company (S) sells inventory to Brother Company (B)
 - Carrying amount at Sister (unconsolidated financial statements): 8 CU
 - Purchase price: 10 CU

75% ultimately sold to external party
Group costs of sale = 75% 8 CU = 6 CU
Remaining group inventory (after sale of 75%): 25 % * 8 CU = 2 CU

- Brother Company sells 75% of the inventory to an external party
 - Carrying amount at Brother (unconsolidated financial statements): 7.5 CU (751)
 - Purchase price: 14 CU

Revenue with external party = group revenue = 14 CU





- Sister Company (S) sells inventory to Brother Company (B)
 - Carrying amount at Sister (unconsolidated financial statements): 8 CU
 - Purchase price: 10 CU

- Brother Company sells 75% of the inventory to an external party
 - Carrying amount at Brother (unconsolidated financial statements): 7.5 CU
 - Purchase price: 14 CU

Journal entries Brother (unconsolidated):

Dr. Cash 14 CU Cr. Revenue 14 CU

Dr. Cost of Sales 7.5 CU Cr. Inventory 7.5 CU

Cost of inventory to group (6 CU = 75% * 8 CU) + intra-group profit (1.5 CU = 75% * 2 CU)











- Sister Company (S) sells inventory to Brother Company (B)
 - Carrying amount at Sister (unconsolidated financial statements): 8 CU
 - Purchase price 10 CU

- Brother Company sells 75% of the inventory to an external party
 - Carrying amount at Brother (unconsolidated financial statements): 7.5 CU
 - Purchase price: 14 CU

Consolidation: Eliminate sales transaction to the extent it is internal to group

Dr. Revenue 10

Cr. Cost of Sales 9.5 CU

. Inventory 0.5 CU

Elimination of intra-group profit of 2 CU: 1.5 CU (=75%) from inventory that "left" the group (because of sales transaction with external party)

0.5 CU (= 25%) "contained" in inventory that still is with the group







- Sister Company (S) sells inventory to Brother Company (B)
 - Carrying amount at Sister (unconsolidated financial statements): 8 CU
 - Purchase price: 10 CU

- Brother Company sells 75% of the inventory to an external party
 - Carrying amount at Brother (unconsolidated financial statements): 7.5 CU
 - Purchase price: 14 CU

	Sister	Brother	Sum (S + B)	Elimination	Group
Sales	10	14	24	10	<u>14</u>
Cost of Sales	8	7.5	15.5	9.5	6_
Profit	2	6.5	8.5	0.5 (implicit)	8
Inventory		2.5	2.5	0.5	2

Block 3: Key take-aways



- Via capital consolidation, we:
 - Avoid double-counting of equity
 - Resolve the position "investments in affiliates" from the parent company's unconsolidated financial statements
 - Bring the subsidiaries' revalued assets/liabilities as well as goodwill of the transaction onto the consolidated financial statements
- The consolidated statements only reflect transactions that are carried out with third parties (external to the group). Thus, we need to eliminate intra-group transactions.
 - Case 1 (no adjustment necessary): asset at one company, liability of another company, same amount (example: bank loan) → cancel out positions against each others
 - Case 2 (adjustment necessary): intra-group profit/loss, so that there are no two
 positions of the same amount that can be canceled out (example: provision, transfer of
 inventory) → eliminate intra-group profit/loss and adjust corresponding positions on
 balance sheet