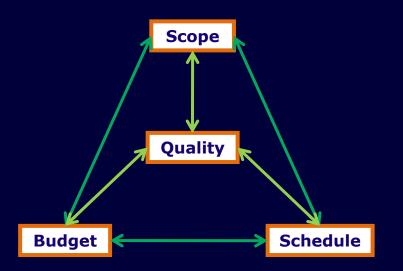
Project Management

Miscellaneous Q&As (1)

➤ A project is a unique endeavour to produce a set of deliverables within clearly specified, cost and quality constraints.

Answer 1

A project is a unique endeavour to produce a set of deliverables within clearly specified time, cost and quality constraints.



Answer 2

➤ A project manager's basic goal is the successful completion of her/his project in compliance with its scope, schedule, budget and quality requirements, in order to meet customer expectations.

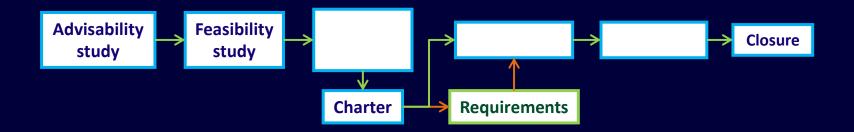


Answer 3

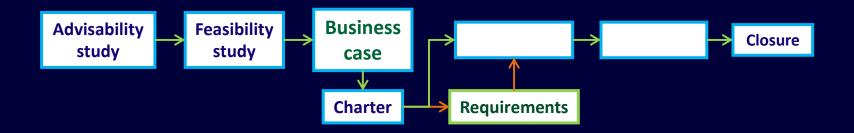
➤ Any objective should be "SMART", ie Specific, Measurable, Attainable, Realistic and

<u>T</u>ime-bound.

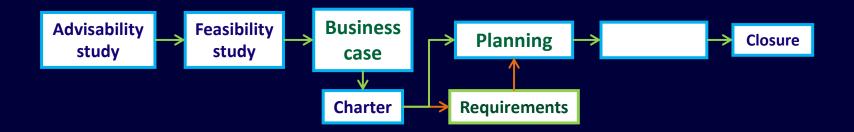




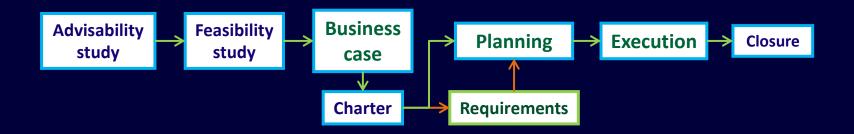
Answer 4 (1)



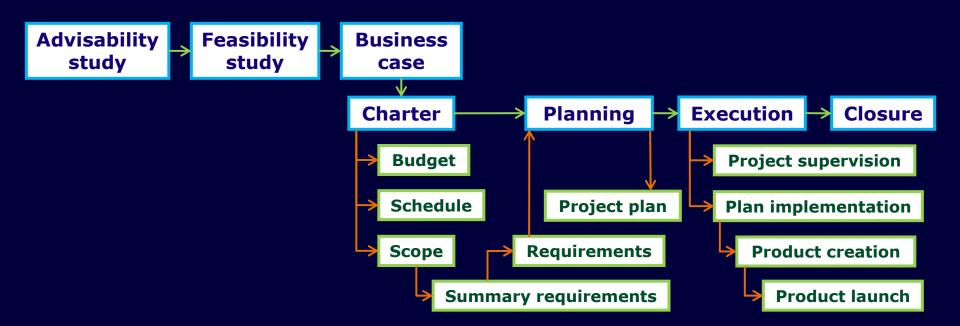
Answer 4 (2)



Answer 4 (3: complete)



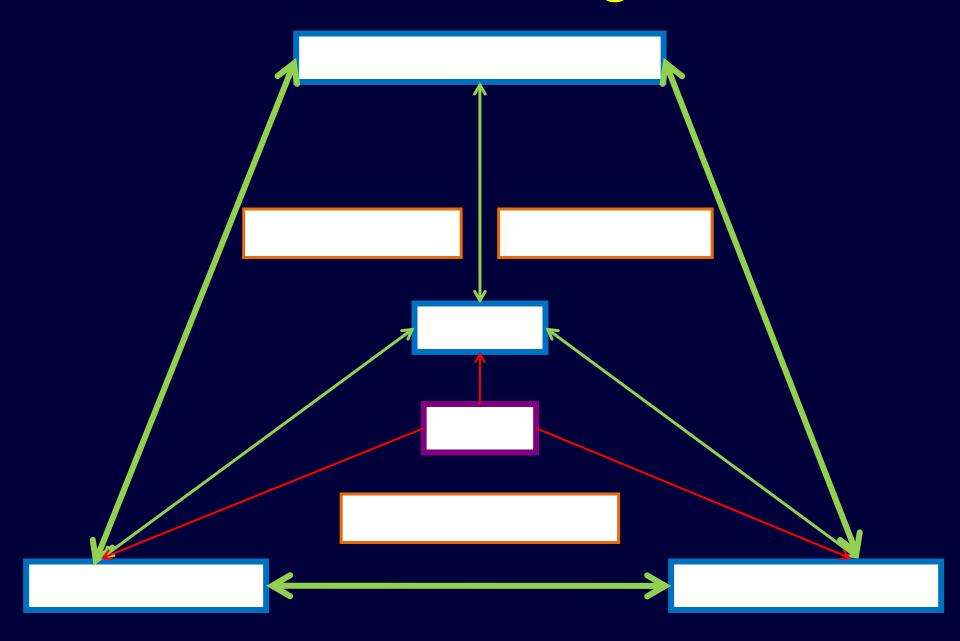
Reminder: project life cycle summary



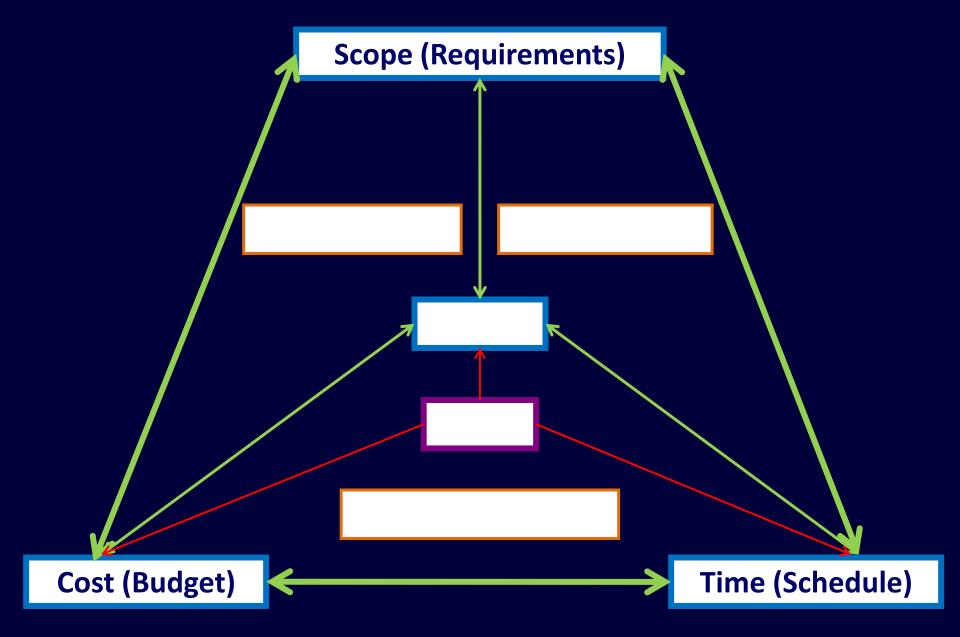
Question 5 – text

Mentally fill in the rectangles in the diagram
on the next page with the names of the main
8 areas of project management.

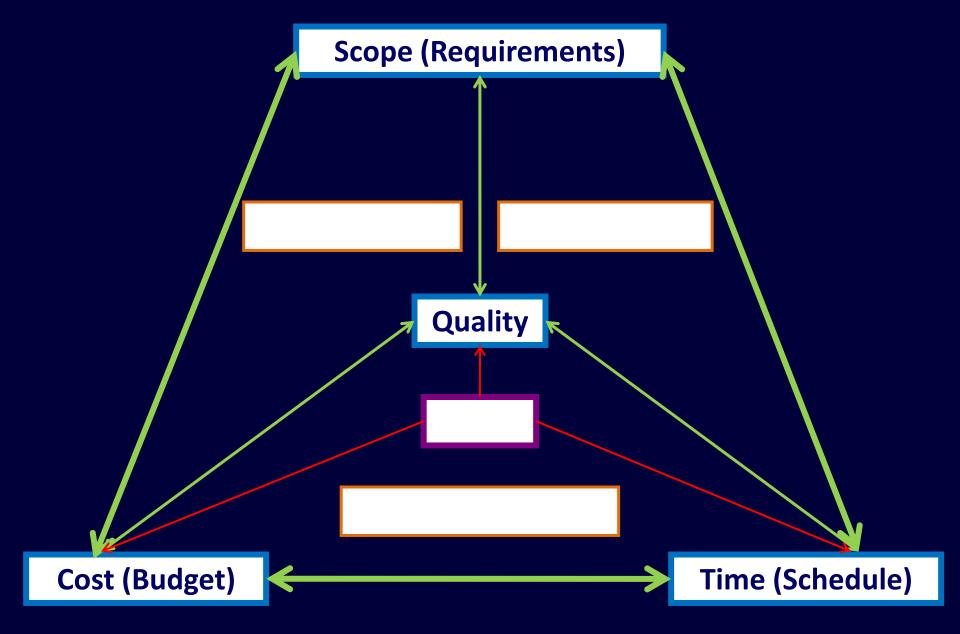
Question 5 – diagram



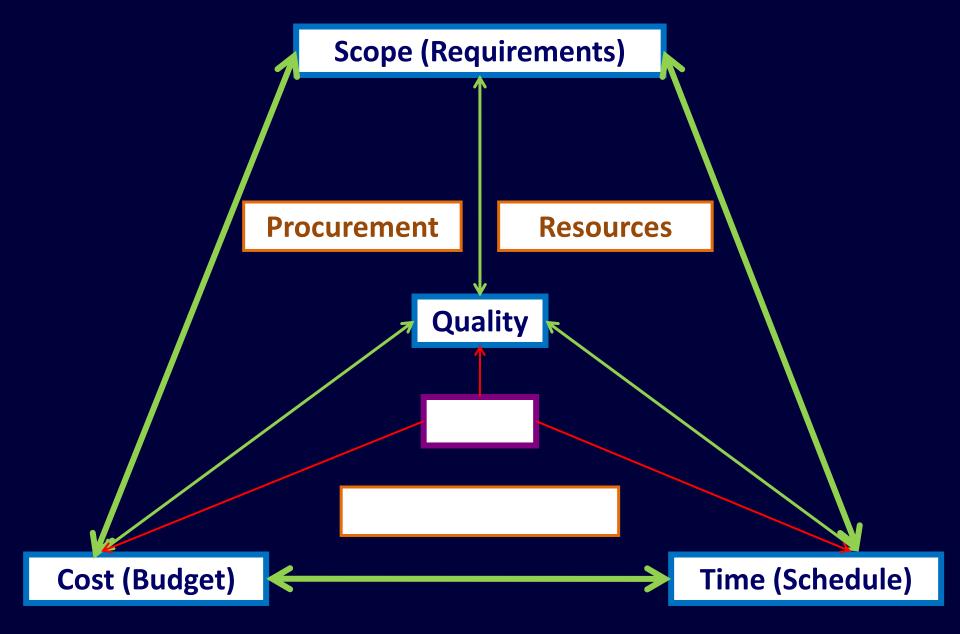
Answer 5 – diagram (1)



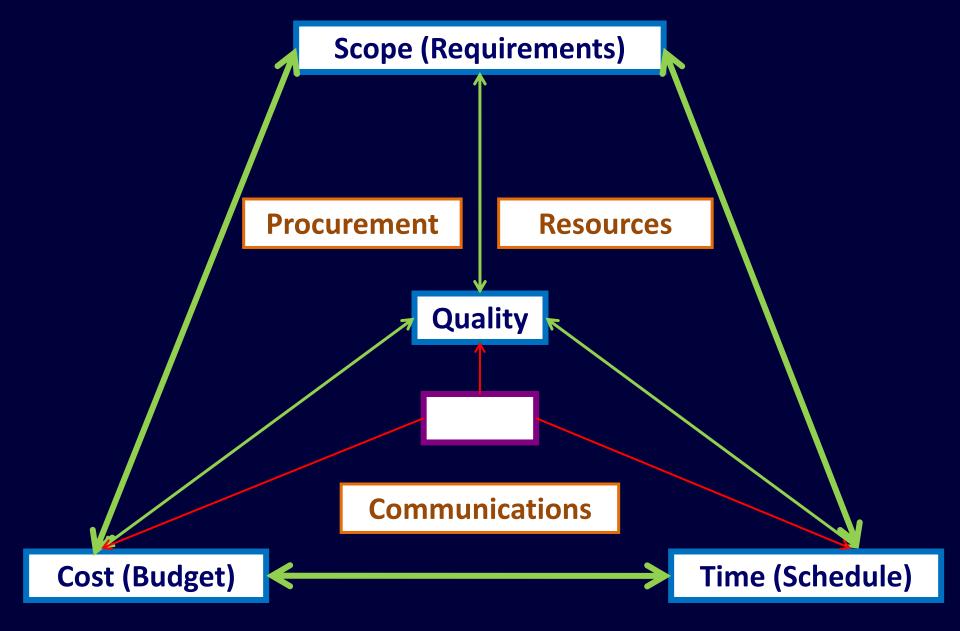
Answer 5 – diagram (2)



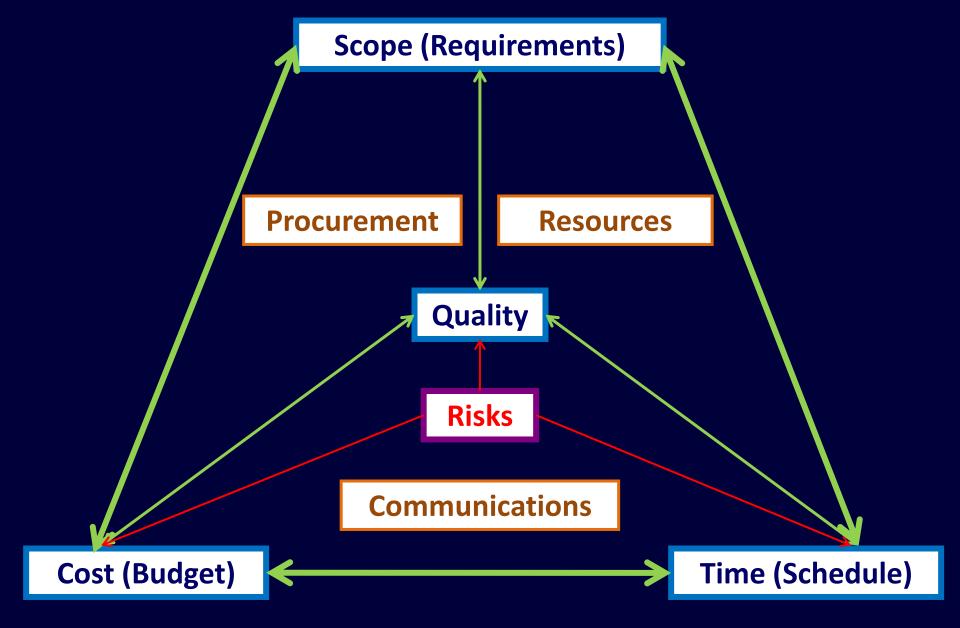
Answer 5 – diagram (3)



Answer 5 – diagram (4)



Answer 5 – diagram (5: complete!)



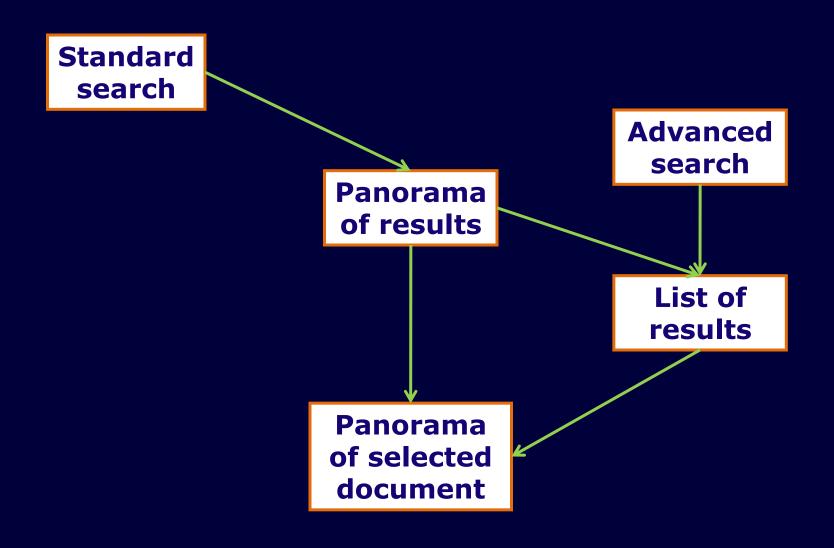
➤ A requirements specification describes the expected result of a project, for example the functionality (functions & features) of a product. Such a description can be given in the form of narrative text. In what other form can a product's functionality be effectively described and summarized?

Answer 6

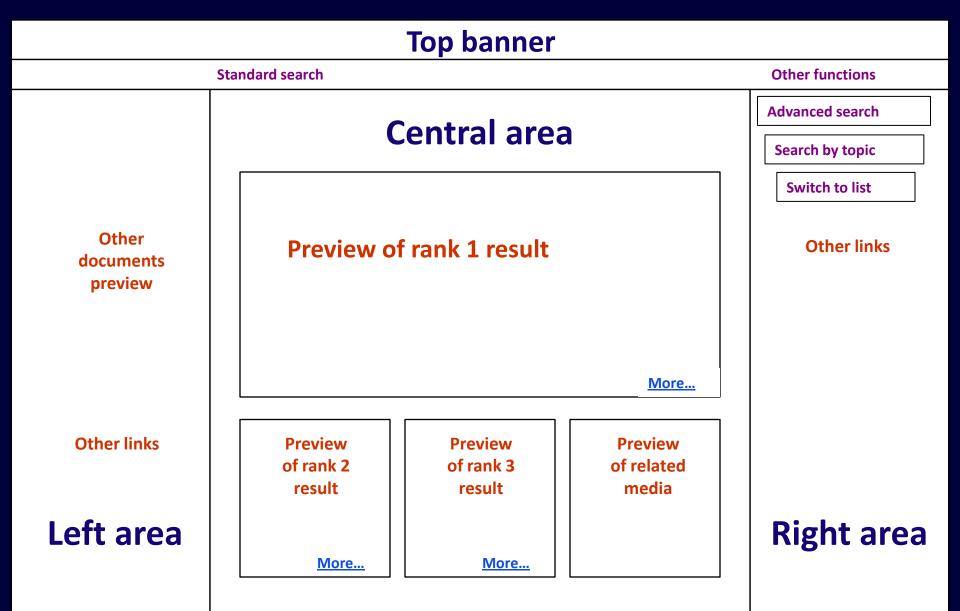
> A requirements specification describes the expected result of a project, for example the functionality (functions & features) of a product. Such a description can be given in the form of narrative text. In what other form can a product's functionality be effectively described and summarized?

In graphical form

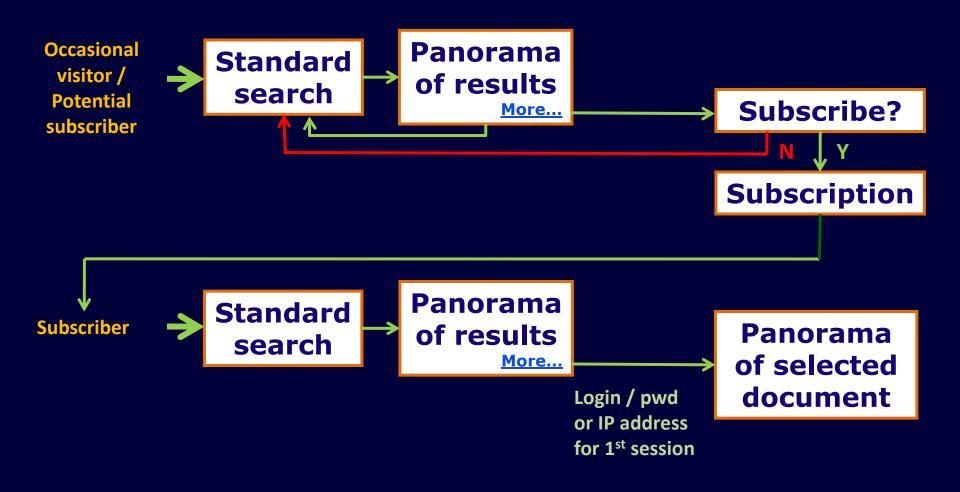
Example: graphical representation (1)



Example: graphical representation (2)



Example: graphical representation (3)



The "4 Ps" of the marketing mix correspond to "Product", "......", "Place" and "Promotion".

Answer 7

The "4 Ps" of the marketing mix correspond to "Product", "Price", "Place" and "Promotion".



Does the business model adopted for a product have any influence on the design and development of the product?

No Yes

Answer 8

Does the business model adopted for a product have any influence on the design and development of the product?

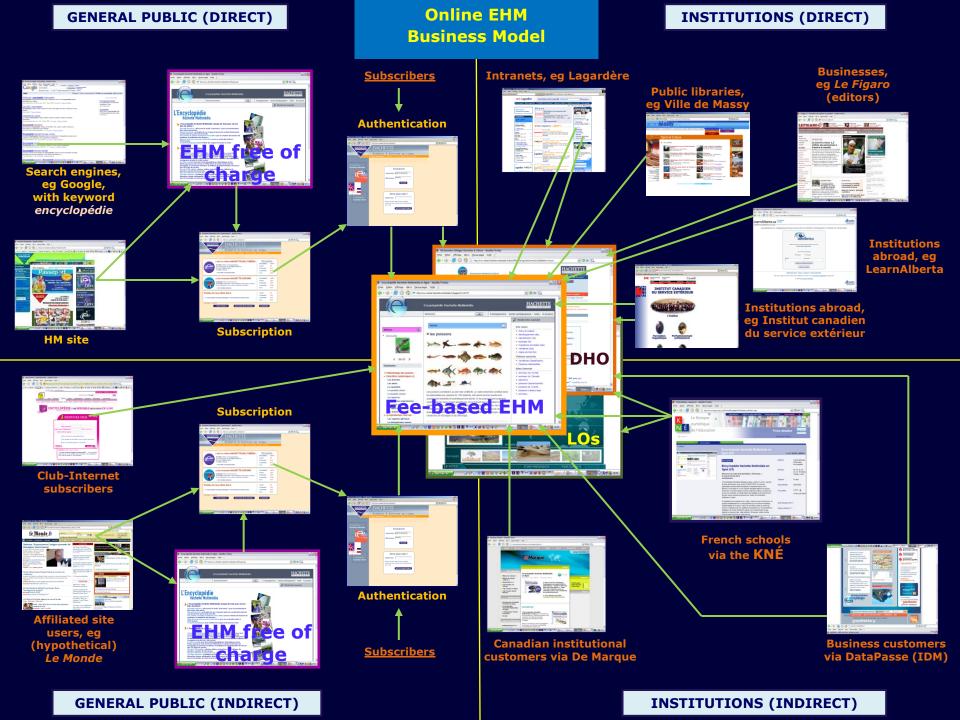
No Yes ✓

Reminder: price and business model

- Market demand & supply
- > Direct impact on product
- > Sales channels
- How revenue is generated



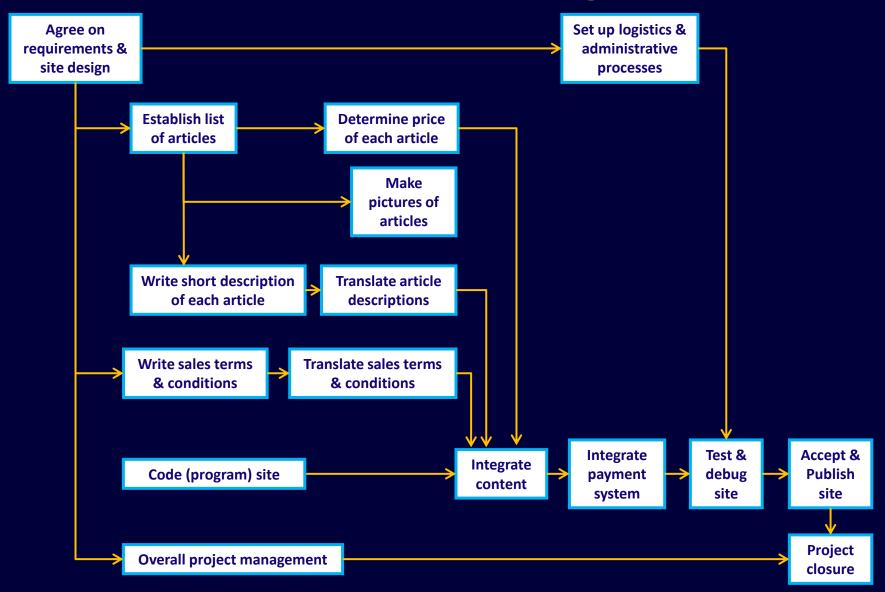




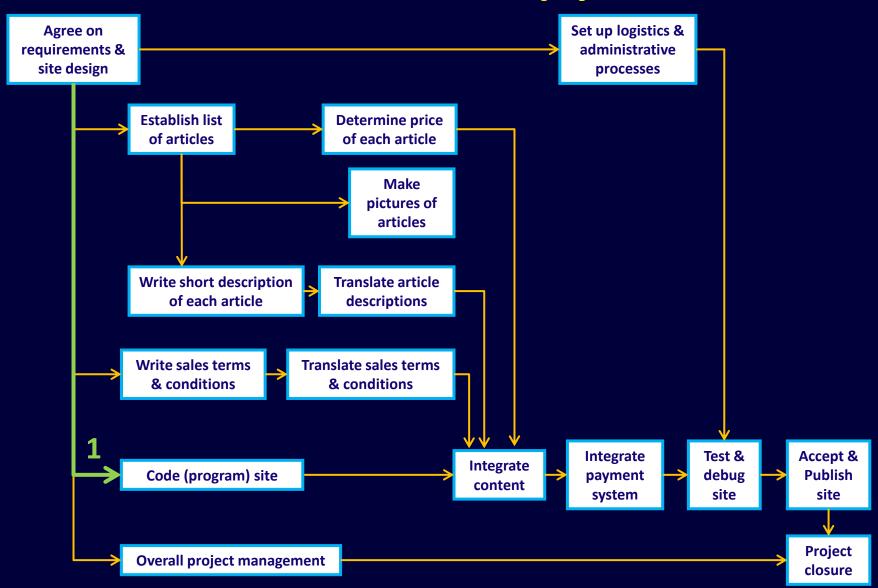
Question 9 – text

> Mentally complete the network diagram on the next page by drawing the 2 arrows that are missing.

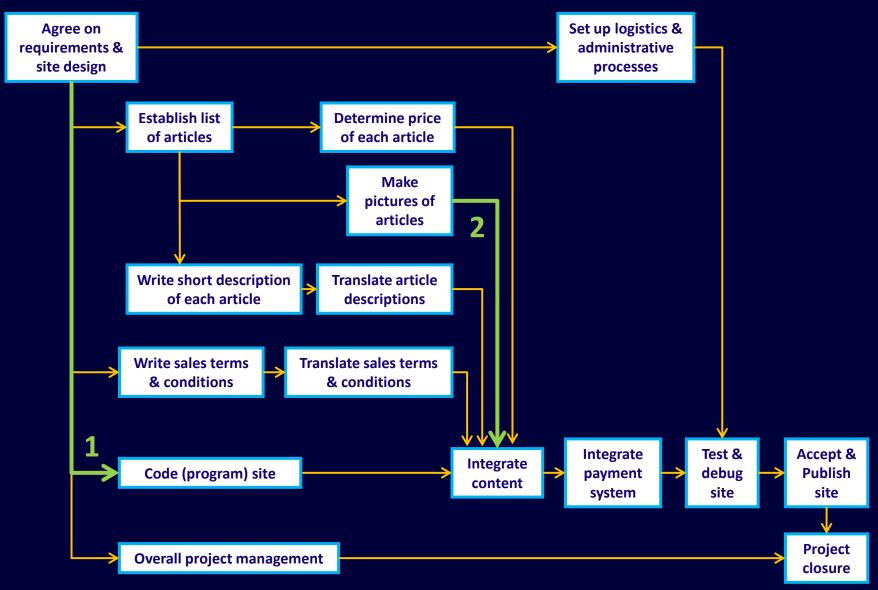
Question 9 – diagram



Answer 9 (1)



Answer 9 (2: complete)



What are the 5 planning processes involved in establishing a project's schedule, given its scope and requirements?

✓ Project's scope and requirements.

```
1) ...
```

```
2) ...
```

Project's schedule.

Answer 10 (1 of 5)

- What are the 5 planning processes involved in establishing a project's schedule, given its scope and requirements?
 - ✓ Project's scope and requirements.
 - 1) Create the Work Breakdown Structure (WBS).
 - 2) ...
 - 3) ...
 - 4) ...
 - 5) ...
 - Project's schedule.

Answer 10 (2 of 5)

- What are the 5 planning processes involved in establishing a project's schedule, given its scope and requirements?
 - ✓ Project's scope and requirements.
 - 1) Create the Work Breakdown Structure (WBS).
 - 2) Define tasks.
 - 3) ...
 - 4) ...
 - 5) ...
 - Project's schedule.

Answer 10 (3 of 5)

- What are the 5 planning processes involved in establishing a project's schedule, given its scope and requirements?
 - ✓ Project's scope and requirements.
 - 1) Create the Work Breakdown Structure (WBS).
 - 2) Define tasks.
 - 3) Sequence tasks.
 - 4) ...
 - 5) ...
 - Project's schedule.

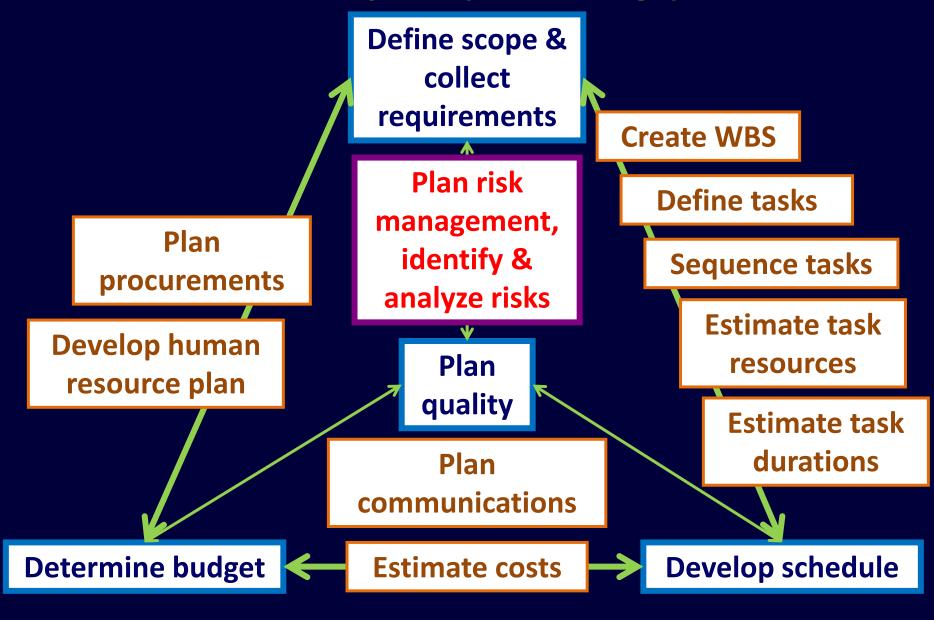
Answer 10 (4 of 5)

- What are the 5 planning processes involved in establishing a project's schedule, given its scope and requirements?
 - ✓ Project's scope and requirements.
 - 1) Create the Work Breakdown Structure (WBS).
 - 2) Define tasks.
 - 3) Sequence tasks.
 - 4) Estimate task resources.
 - 5) ...
 - Project's schedule.

Answer 10 (5 of 5: complete!)

- What are the 5 planning processes involved in establishing a project's schedule, given its scope and requirements?
 - ✓ Project's scope and requirements.
 - 1) Create the Work Breakdown Structure (WBS).
 - 2) Define tasks.
 - 3) Sequence tasks.
 - 4) Estimate task resources.
 - 5) Estimate task durations.
 - Project's schedule.

Reminder: Project planning processes



Question 11 – text

➤ Mentally enter "Duration" and "Predecessors" information respectively in rectangles 1 and 4 and rectangles 2, 3, 5, 6 and 7 in the picture on the next page so that the information is consistent with the sequence of tasks for two work packages shown in the network diagrams in the right part of the picture.

(For practical purposes in this exercise, testing & debugging of a component are completed simultaneously, as shown in the 1st network diagram, and translation does not start until writing in French has been completed, as shown in the 2nd network diagram. Also note that no work is done during weekends.)

Question 11 – Gantt view

	Task Name	Duration 💂	Resource Names 💂	Predecessors	15 May '17 S M T W T F S	22 May '17	29 Ma
1	□ Component coding, testing & debugging		1		5 M T N T T 5		diagrams
2	Code & debug software component 1	.50	Development engineer 1			Development enginee	г1
3	Test software component 1	3 days	Test engineer 1	2	——	rest engineer 1	
4	Code & debug software component 2		Development engineer 2			Developmer Developmer	nt engineer 2
5	Test software component 2	4 days	Test engineer 2	3	X	Test engine	er 2
6							
7	☐ Article writing & translation		4				
8	Write articles 1 & 2 in French	1 day	Content writer 1		Content write	r1	
9	Write articles 3 & 4 in French	1 day	Content writer 2		Content write	г2	
10	Translate articles from French into English	0.000	French to English translator	5	French	to English translator	
11	Translate articles from English into Chinese		English to Chinese translator	6	Engl	lish to Chinese transla	tor
12	Translate articles from French into Japanese	.50	French to Japanese translator	7	French	to Japanese translator	

Answer 11 – part 1

9	Task Name	Duration 💂	Resource Names 💂	Predecessors	S	15 May '17 M T W T F	22 N	1ay '17	29 Ma
1	□ Component coding, testing & debugging	6 days	1				•	Network dia	<u>gram</u>
2	Code & debug software component 1	.54	Development engineer 1				Developm	ent engineer 1	
3	Test software component 1	3 days	Test engineer 1	2SS+2 days 2			Test engin	eer1	
4	Code & debug software component 2		Development engineer 2					Development eng	gineer 2
5	Test software component 2	4 days	Test engineer 2	4SS+2 days 3	3			Test engineer 2	
c									

Answer 11 – part 2

- 2	Task Name	Duration _	Resource Names	Predecessors_	ecessors 15 May '17 22 May '17				29	Ma											
	74		**	<u> </u>	S	M	Т	W	Т	F	S	S	М	Т	W	Т	F	S	S	M	Т

7	☐ Article writing & translation	4 days	4		—		Network diagram
8	Write articles 1 & 2 in French	1 day	Content writer 1			Content writer 1	Network diagram
9	Write articles 3 & 4 in French	1 day	Content writer 2			Content writer 2	
10	Translate articles from French into English	2 days	French to English translator	8;9	5	French to English	translator
11	Translate articles from English into Chinese	2 days	English to Chinese translator	10SS+1 day	6	English to Chi	nese translator
12	Translate articles from French into Japanese	2 days	French to Japanese translator	8;9	7	French to Japane	se translator

Answer 11 – complete

3	Task Name	Duration 💂	Resource Names 🖕	Predecessors _	15 May '17 22 May '17 29 Ma
1	□ Component coding, testing & debugging	6 days	1		Network diagrams
2	Code & debug software component 1		Development engineer 1		Development engineer 1
3	Test software component 1	3 days	Test engineer 1	2SS+2 days 2	Test engineer 1
4	Code & debug software component 2		Development engineer 2		Development engineer 2
5	Test software component 2	4 days	Test engineer 2	4SS+2 days 3	Test engineer 2
6					
7	☐ Article writing & translation	4 days	4		↓
8	Write articles 1 & 2 in French	1 day	Content writer 1		Content writer 1
9	Write articles 3 & 4 in French	1 day	Content writer 2		Content writer 2
10	Translate articles from French into English		French to English translator	8;9 5	French to English translator
11	Translate articles from English into Chinese		English to Chinese translator	10SS+1 day 6	English to Chinese translator
12	Translate articles from French into Japanese	.50	French to Japanese translator	8;9 7	French to Japanese translator

Question 12 – text

Take into account the "Resource" and "Duration" information provided in the excerpts of a Resource Sheet and Gantt view on the next page to calculate the "Work(load)" (in person-days) and "Cost" (in €) of the featured "Task", then mentally enter the values respectively in rectangles 1 and 2.

Question 12 – Res'rce sheet & Gantt view

Resource Name 🕌	Type 🕌	Max. Units	Std. Rate 🗸	Task Name	Duration 💂	Resource Names	Work
R1	Work	100%	€ 400/day	Task 12 days		R1;R2[75%];R3[25%]	
R2	Work	100%	€ 360/day				
R3	Work	100%	€320/day				1

Answer 12 - part 1

Resource Name 💂	Type 🕌	Max. Units	Std. Rate 💂	Task Name	Duration 🚽	Resource Names	Work →	Cost
R1	Work	100%	€ 400/day	Task	12 days	R1;R2[75%];R3[25%]	24 days	
R2	Work	100%	€360/day					
R3	Work	100%	€320/day				1	2

Workload: 12 + 9 + 3 = 24 person-days

Answer 12 – complete

Resource Name 🕌	Type 🕌	Max. Units	Std. Rate 💂	Task Name	Duration 🚽	Resource Names	Work →	Cost
R1	Work	100%	€ 400/day	Task	12 days	R1;R2[75%];R3[25%]	24 days	€9000
R2	Work	100%	€360/day					
R3	Work	100%	€320/day				1	2

Workload: 12 + 9 + 3 = 24 person-days

Question 13

> As a project manager working for a software development contractor, you have estimated that the total cost of the work to be done for a client amounts to € 100,000 (including a "management reserve" to cover any possible estimation error). Assuming that your management requires a 20% profit margin, what price should the client be quoted?

→ Price = €

Answer 13

> As a project manager working for a software development contractor, you have estimated that the total cost of the work to be done for a client amounts to € 100,000 (including a "management reserve" to cover any possible estimation error). Assuming that your management requires a 20% profit margin, what price should the client be quoted?

→ Price = € 125,000

Answer 13 (illustrated)

125K

100K 25K

- Margin% = Margin / Price
- Margin% = (Price Cost) / Price
- Margin% = 1 Cost / Price
- Cost / Price = 1 Margin%
- Price / Cost = 1 / (1 Margin%)
- > Price = Cost / (1 Margin%)

- Margin% = 20% = 0.20 = 1/5
- Price = Cost / (1 1/5) = Cost / 4/5 = Cost x 5/4 = (Cost / 4) x 5
- Cost = 100K
- \rightarrow Price = 100K x 5/4 = (100K / 4) x 5 = 25K x 5 = 125K

Price Cost

Question 14

> Which of the following statements related to project risks are generally true?

M

inimizing/eliminating a risk may require adding tasks and/or resources.
Minimizing/eliminating a risk may result in additional costs.
Minimizing/eliminating a risk may result in a modification of the scope and requirements.
Minimizing/eliminating a risk should be postponed until the risk materializes.

Answer 14

Which of the following statements related to project risks are generally true?

Minimizing/eliminating a risk may require adding tasks and/or resources.



Minimizing/eliminating a risk may result in additional costs.



Minimizing/eliminating a risk may result in a modification of the scope and requirements.



Minimizing/eliminating a risk should be postponed until the risk materializes.

