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**QUESTION 1**

You have been hired as the cost engineer for a mechanical contractor and have been provided the following information:

Total budgeted hours	12,000
The planned project duration in days	130

Rules of credit are as follows:

Pipe received	5%
Hangers installed	10%
Pipe in place	30%
Welded	50%
Flushed	5%

The following question requires your selection of CCC/CCE Scenario 2 (2.3.50.1.2) from the right side of your split screen, using the drop down menu, to reference during your response/choice of responses. 9,375 hours have been expended to date. Planned completion at this time is 75%. The project is determined to be 66% complete. What is the current cost performance index (CPI)?

- A. 0.96
- B. 0.84
- C. 1.14
- D. 0.88

Correct Answer: C

QUESTION 2

A major theme park is expanding the existing facility over a five-year period. The design phase will be completed one year after the contract is awarded. Major engineering drawings will be finalized two years after the design contract is awarded and construction will begin three years after the award of the design contract. New, unique ride technology will be used and an estimate will need to be developed to identify these costs that have no historical data.

Which of the following is least likely to improve a large earthmoving contractor's productivity?

- A. Using apprentice operators to save labor costs
- B. Starting summer work in the early morning hours to minimize work during peak heat periods of the day
- C. Remove underground hazards prior to excavation work
- D. Replacing old excavators with new, larger excavators

Correct Answer: B

**QUESTION 3**

Money is value. Having money when you need it is very important. Money can also be valuable when used wisely by knowing when to spend and when to conserve. Also, planning now for future expenses can be a plus to the company rather

than a debit.

There are several ways to capitalize money and spending. Basically there is the single payment method that has a compound amount factor and a present worth factor. There is the uniform annual series that has a sinking fund factor, capital

recovery factor and also the compound amount factor and present worth factor. At this point, we can assure money is worth 10%.

The following question requires your selection of CCC/CCE Scenario 7 (4.8.50.1.1) from the right side of your split screen, using the drop down menu, to reference during your response/choice of responses. If \$10,000 is scheduled to be paid out 5 years from now, what is the minimum amount we can invest today?

A. \$3,855

B. \$8,129

C. \$6,209

D. \$3,791

Correct Answer: C

QUESTION 4

_____ is defined as the earned work hours or dollars for all accounts divided by the budgeted work hours or dollars for all accounts.

A. Percent complete

B. Cost to complete

C. Earned value

D. Forecast

Correct Answer: A

QUESTION 5

Which of the following is NOT an aspect of quality management?

A. Quality assurance

B. Quality planning



C. Quality checking

D. Quality control

Correct Answer: C

QUESTION 6

A bond that guarantees the bidder will enter into a contract on the basis of his/her bid is referred to as:

A. Surety bond

B. Performance bond

C. Bid bond

D. Liability bond

Correct Answer: C

QUESTION 7

A major theme park is expanding the existing facility over a five-year period. The design phase will be completed one year after the contract is awarded. Major engineering drawings will be finalized two years after the design contract is

awarded and construction will begin three years after the award of the design contract. New, unique ride technology will be used and an estimate will need to be developed to identify these costs that have no historical data.

The following question requires your selection of CCC/CCE Scenario 26(2.5.50.1.2) from the right side of your split screen, using the drop down menu, to reference during your response/choice of responses.

Select the statement that best describes the meaning of the +/-notations associated with an estimate. The actual cost is expected:

A. To be exactly the percentages stated

B. To fall within the percentage range stated

C. To be higher or lower than the percentages stated

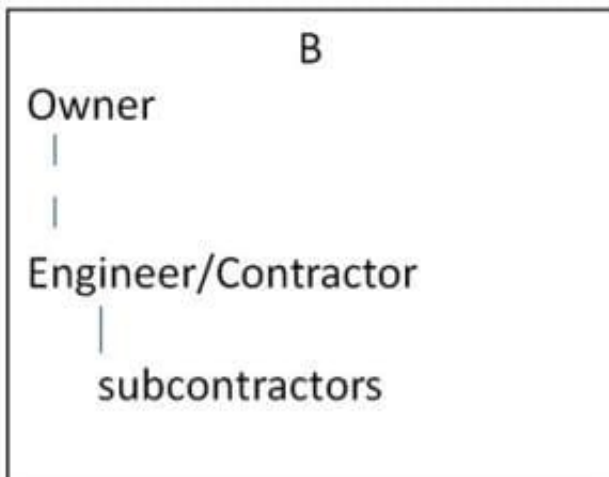
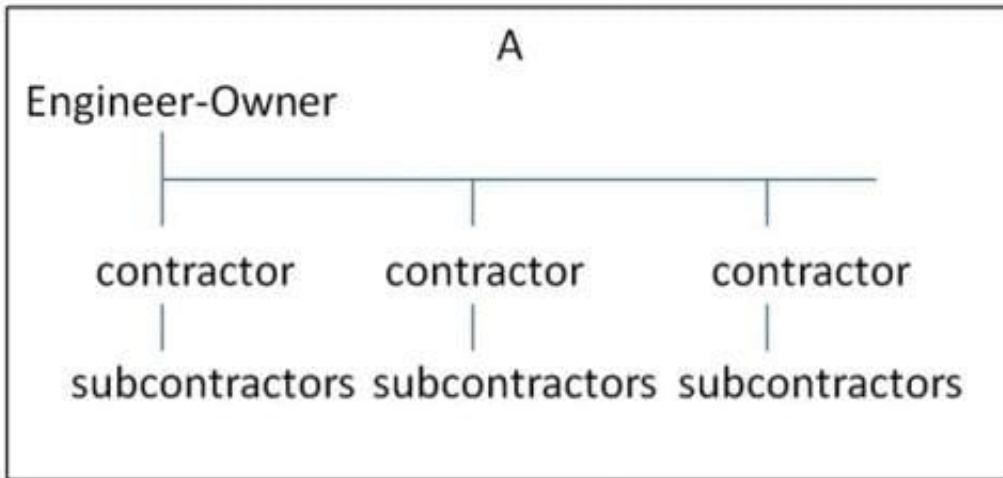
D. To be outside the percentages stated

Correct Answer: B

QUESTION 8



Given the two organization structures below, answer the question.



The following question requires your selection of CCC/CCE Scenario 28 (3.7.50.1.7) from the right side of your split screen, using the drop down menu, to reference during your response/choice of responses. If the owner in B has as his primary goal to get the project completed and on line as fast as possible, then he would most likely use the _____ type of contract.

- A. Cost plus
- B. Lump sum
- C. Unit Rate
- D. Lump sum + incentive

Correct Answer: D

QUESTION 9

Money is value. Having money when you need it is very important. Money can also be valuable when used wisely by knowing when to spend and when to conserve Also, planning now for future expenses can be a plus to the company rather



than a debit.

There are several ways to capitalize money and spending. Basically there is the single payment method that has a compound amount factor and a present worth factor. There is the uniform annual series that has a sinking fund factor, capital

recovery factor and also the compound amount factor and present worth factor. At this point, we can assure money is worth 10%.

The following question requires your selection of CCC/CCE Scenario 7 (4.8.50.1.1) from the right side of your split screen, using the drop down menu, to reference during your response/choice of responses. Five years from now it is required the company have \$100,000. How much money should be invested at the end of each year to reach this?

- A. \$15,937
- B. \$15,397
- C. \$16,380
- D. \$13,168

Correct Answer: C

QUESTION 10

You have estimated that the present day price for a piece of equipment is \$350,000. The delivery of the equipment is scheduled 30 months from today. The price of the equipment has been separated into the following categories:

Category	Percent
Steel	30
Copper	30
Manufacturing Labor	40

Based on information from forecasting services, the current cost index value and the expected inflation rate for each commodity is as follows:

INFLATION RATE (projected)

Commodity	Current Index	Year 1	Year 2	Year 3	Year 4
Steel	2.40	2.5%	2.5%	3.0%	2.0%
Copper	4.20	1.0%	1.5%	2.0%	2.0%
Manufacturing Labor	6.50	2.5%	3.0%	3.0%	3.5%

The following question requires your selection of CCC/CCE Scenario 4 (2.7.50.1.1) from the right side of your split screen, using the drop down menu, to reference during your response/choice of responses. If steel costs \$1800/ton at the end of Year 3, what is the price of steel at the end of Year 4?



- A. \$1890/ton
- B. \$1863/ton
- C. \$1948/ton
- D. \$1836/ton

Correct Answer: D

QUESTION 11

You have been hired as the cost engineer for a mechanical contractor and have been provided the following information:

Total budgeted hours	12,000
The planned project duration in days	130

Rules of credit are as follows:

Pipe received	5%
Hangers installed	10%
Pipe in place	30%
Welded	50%
Flushed	5%

The following question requires your selection of CCC/CCE Scenario 2 (2.3.50.1.2) from the right side of your split screen, using the drop down menu, to reference during your response/choice of responses. 9,375 hours have been expended to date. Planned completion at this time is 75%. The project is determined to be 66% complete. Based on current trends, how many hours will be expended at project completion?

- A. 16,215
- B. 14,201
- C. 12,000
- D. 10,526

Correct Answer: D

QUESTION 12



You are analyzing historic unit costs for 18" Class 5 reinforced concrete pipe in a database. The unit costs include all costs - material, labor, equipment, and other, for the excavation, bedding, pipe and backfill. Refer to the following table:

BID DATE	LOCATION	ESTIMATED QUANTITY	UNIT COST
3/11/03	Cincinnati, OH, USA	147	\$55.00
9/14/05	Eau Clair, WI, USA	143	\$34.50
8/17/06	Louisville, KY, USA	462	\$37.30
8/31/05	Atlanta, GA, USA	530	\$55.00
11/19/04	Atlanta, GA, USA	308	\$40.00
1/26/05	Atlanta, GA, USA	45	\$26.78
2/21/07	Denver, CO, USA	256	\$46.59
4/18/06	Colorado Springs, CO, USA	176	\$75.00
4/18/06	Colorado Springs, CO, USA	80	\$65.00

The following question requires your selection of CCC/CCE Scenario 6 (2.7.50.1.3) from the right side of your split screen., using the drop down menu, to reference during your response/choice of responses. Calculate the weighted average unit cost.

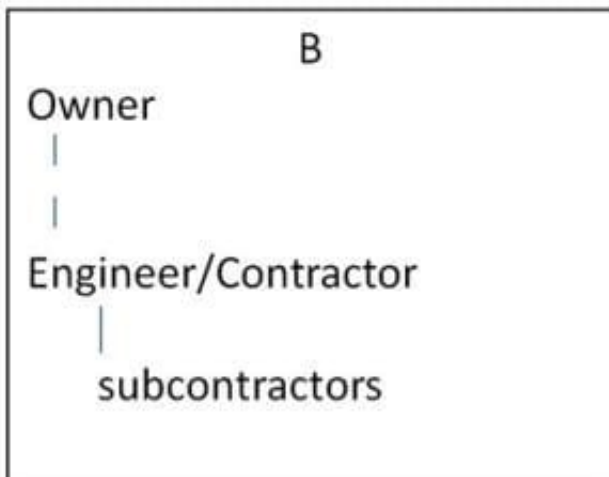
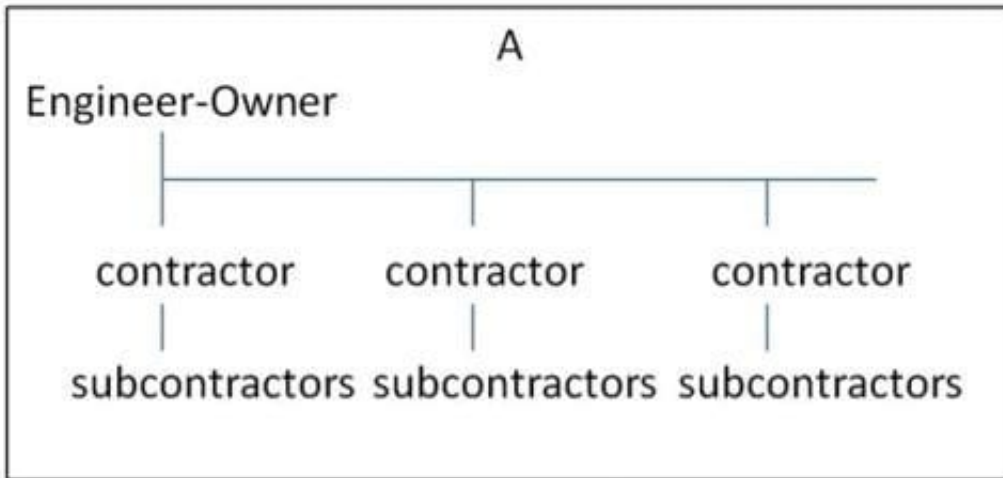
- A. \$46.13
- B. \$47.63
- C. \$48.35
- D. \$48.09

Correct Answer: C

QUESTION 13



Given the two organization structures below, answer the question.



The following question requires your selection of CCC/CCE Scenario 28 (3.7.50.1.7) from the right side of your split screen, using the drop down menu, to reference during your response/choice of responses. Given a unit price contract between the owner and contractor, each assumes the following:

- A. Bid unit rate, owner quantities can exceed estimate range Contractor can perform above
- B. Bid unit rate, owner quantities are within estimate range
- C. Contractor can perform at or below bid unit rate, owner quantities can exceed estimate range
- D. Contractor can perform at or below bid unit rate, owner quantities are within estimate range

Correct Answer: D

QUESTION 14

A major theme park is expanding the existing facility over a five-year period. The design phase will be completed one year after the contract is awarded. Major engineering drawings will be finalized two years after the design contract is

awarded and construction will begin three years after the award of the design contract. New, unique ride technology will be used and an estimate will need to be developed to identify these costs that have no historical data.



The following question requires your selection of CCC/CCE Scenario 26 (2.5.50.1.2) from the right side of your split screen, using the drop down menu, to reference during your response/choice of responses.

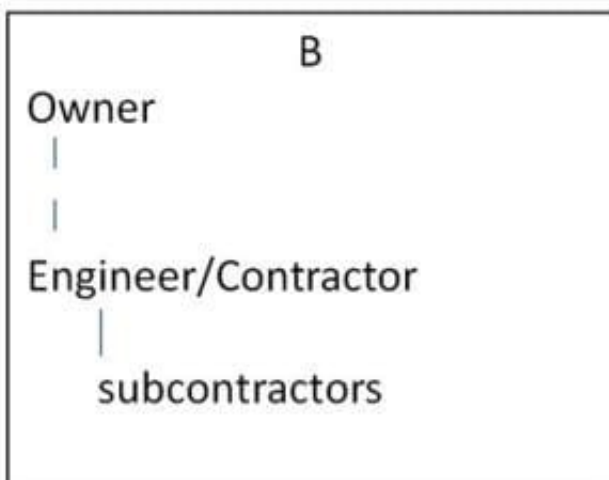
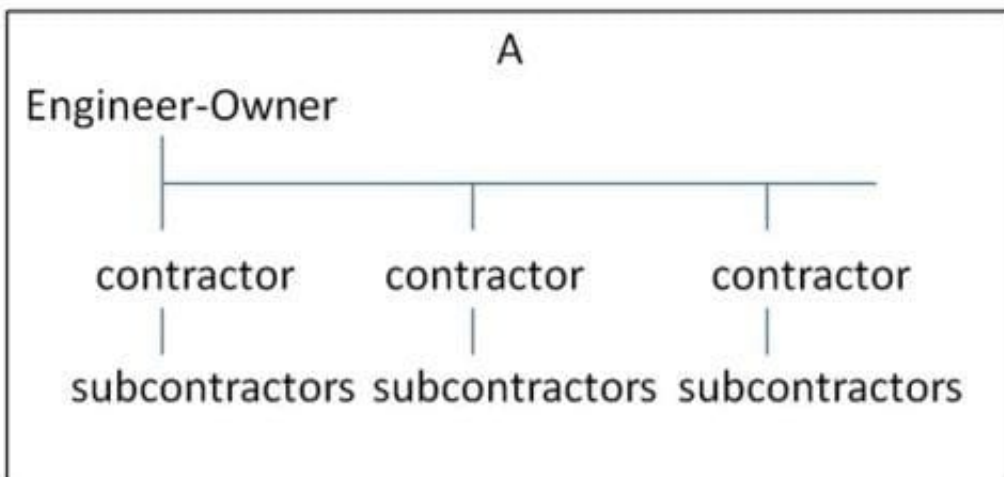
Select the statement that best describes the method to estimate the cost of the new rides:

- A. Break down the technology into components
- B. Call vendors for quotes
- C. Use historical data from past projects
- D. Adjust known data from existing rides

Correct Answer: D

QUESTION 15

Given the two organization structures below, answer the question.



The following question requires your selection of CCC/CCE Scenario 28 (3.7.50.1.7) from the right side of your split screen, using the drop down menu, to reference during your response/choice of responses. An unbalanced bid methodology can best be used by:



- A. Engineer/contractor working for the owner (Plan B)
- B. Subcontractor working for contractor (Plan A or B)
- C. Contractor working directly for engineer (plan A or B)
- D. Engineer working for the owner (Plan A)

Correct Answer: A

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