

GMAT Focus Edition: Multi-Source Reasoning Practice Set

Multi-Source Reasoning (MSR) questions require you to analyze and synthesize information presented in two or three different formats (tabs, emails, reports, etc.) to draw conclusions. These questions test your ability to manage and integrate complex data.

Scenario 1: Quarterly Project Review (3 Questions)

Directions: Answer the following questions based on the two tabs of information below.

Tab 1: Q1 Project Status (March 31)

Project ID	Manager	Budget (USD)	Status	Expected Completion
P-101	A. Smith	\$150,000	75% Complete	May 15
P-102	B. Jones	\$220,000	50% Complete	June 30
P-103	A. Smith	\$90,000	95% Complete	April 10
P-104	C. Davis	\$300,000	25% Complete	July 20

Tab 2: Departmental Notes

- A. Smith:** Has requested a \$20,000 budget increase for P-101 to cover unexpected hardware costs. If approved, P-101's expected completion date is unlikely to change.
- B. Jones:** Project P-102 is currently behind schedule due to resource allocation conflicts.

It requires an additional two weeks of development time to maintain the current budget.

- **C. Davis:** P-104's budget is firm, but its scope is being reviewed. The earliest possible completion date for any project is April 1.

1.1 Based on the information in both tabs, which of the following statements is definitely true?

- (A) Project P-103 has the largest initial budget among the projects managed by A. Smith.
- (B) If the budget increase for P-101 is approved, P-102 will have the largest budget of all projects.
- (C) Project P-102 will be completed before Project P-104, even if P-102 takes an additional two weeks.
- (D) If P-101's budget is increased, its total budget will exceed the sum of the budgets for P-103 and P-104.
- (E) Project P-103 will be completed earlier than the earliest possible completion date mentioned in the Departmental Notes.

1.2 If the budget increase for P-101 is approved, what will be the total combined budget for all projects managed by A. Smith?

- (A) \$240,000
- (B) \$260,000
- (C) \$280,000
- (D) \$310,000
- (E) \$460,000

1.3 Which manager has the highest total initial budget responsibility?

- (A) A. Smith
- (B) B. Jones
- (C) C. Davis

Scenario 2: Retail Inventory Analysis (3 Questions)

Directions: Answer the following questions based on the two tabs of information below.

Tab 1: Product Sales Last Week (Scenario 2)

Product Category	Units Sold	Revenue per Unit
Electronics	500	\$150

Apparel	800	\$40
Home Goods	650	\$60

Tab 2: Inventory Status (Scenario 2)

Product Category	Total Inventory (Units)	Reorder Threshold (Units)
Electronics	1,200	700
Apparel	2,500	1,500
Home Goods	1,000	400

2.1 Select the option that correctly calculates the remaining inventory units for the product with the highest total sales revenue last week, and indicates whether that remaining inventory is above or below its reorder threshold.

	Remaining Inventory Units	Above/Below Reorder Threshold
(A)	700	Above
(B)	700	Below
(C)	1,700	Above
(D)	1,700	Below
(E)	300	Below

2.2 What was the total revenue generated by all three product categories last week?

- (A) \$136,000
- (B) \$146,000
- (C) \$156,000
- (D) \$166,000
- (E) \$176,000

2.3 Which product category sold the lowest percentage of its total current inventory last week?

- (A) Electronics
- (B) Apparel
- (C) Home Goods

Scenario 3: Employee Training Programs (3 Questions)

Directions: Answer the following questions based on the two tabs of information below.

Tab 1: Training Program Completion Rates (Q4) (Scenario 3)

Program	Total Participants	Completion Rate	Cost per Participant (USD)
Leadership Skills	120	80%	\$500
Software Mastery	150	90%	\$350
Financial Modeling	80	75%	\$600

Tab 2: HR Training Goals

- The target completion rate for all programs is 85%.
- Programs with a cost per participant exceeding \$550 must be reviewed for cost-efficiency.

- The total training budget for Q4 was \$150,000.

3.1 Which of the following programs failed to meet the target completion rate AND is scheduled for a cost-efficiency review?

- (A) Leadership Skills only
- (B) Software Mastery only
- (C) Financial Modeling only
- (D) Leadership Skills and Financial Modeling
- (E) Financial Modeling and Software Mastery

3.2 What was the total cost spent on the participants who successfully completed the Leadership Skills program?

- (A) \$48,000
- (B) \$60,000
- (C) \$50,000
- (D) \$40,000
- (E) \$45,000

3.3 Select the programs that either exceeded the cost-efficiency review threshold (>\$550) or failed the target completion rate (<85%).

Select one answer for each box.

Program	Meets Criteria	Does Not Meet Criteria
Leadership Skills		
Software Mastery		
Financial Modeling		

Answer Key & Explanations

Scenario 1: Quarterly Project Review

1.1 Answer: (C) Project P-102 will be completed before Project P-104, even if P-102 takes an additional two weeks.

- **Explanation:**
 - P-102's New Date: The original date is June 30. Adding two weeks results in an estimated completion date of mid-July (approx. July 14).
 - P-104's Date: The expected completion date is July 20.

- Comparison: Mid-July is before July 20. The statement is definitely true.

1.2 Answer: (B) \$260,000

- **Explanation:** The projects managed by A. Smith are P-101 and P-103.
 - Initial P-101 Budget: \$150,000
 - Approved Increase (Tab 2):
 - New P-101 Budget: \$170,000
 - P-103 Budget: \$90,000
 - Total Budget for A. Smith: $\$170,000 + \$90,000 = \$260,000$

1.3 Answer: (C) C. Davis

- **Explanation:** Calculate the total initial budget responsibility for each manager:
 - A. Smith: P-101 (\$150,000) + P-103 (\$90,000) = \$240,000
 - B. Jones: P-102 (\$220,000)
 - C. Davis: P-104 (\$300,000)
 - C. Davis has the highest total initial budget responsibility.

Scenario 2: Retail Inventory Analysis

2.1 Answer: (A) 700, Above

- **Explanation:**
 - Highest Revenue: Electronics ($500 \times \$150 = \$75,000$) has the highest revenue.
 - Remaining Inventory: $1,200$ (Total Inventory) $- 500$ (Units Sold) = **700 units**.
 - Threshold Status: The Reorder Threshold is 700 units. Since the remaining inventory (700) is equal to or greater than the threshold (700), the inventory is considered Above the threshold.

2.2 Answer: (B) \$146,000

- **Explanation:** Total Revenue is the sum of the calculated revenue for all three categories:
 - Electronics: $500 \times \$150 = \$75,000$
 - Apparel: $800 \times \$40 = \$32,000$
 - Home Goods: $650 \times \$60 = \$39,000$
 - Total Revenue: $\$75,000 + \$32,000 + \$39,000 = \$146,000$

2.3 Answer: (B) Apparel

- **Explanation:** Calculate the percentage sold for each category:
 - Electronics: $(500/1,200) \approx 41.7\%$
 - Apparel: $(800/2,500) = \mathbf{32\%}$
 - Home Goods: $(650/1,000) = 65\%$

- Apparel sold the lowest percentage of its total inventory.

Scenario 3: Employee Training Programs

3.1 Answer: (C) Financial Modeling only

- **Explanation:** The required conditions are (Completion Rate $< 85\%$) AND (Cost per Participant $> \$550$).
 - Leadership Skills: Rate 80% (Fail) but Cost \$500 (Pass). Fails the combined criteria.
 - Software Mastery: Rate 90% (Pass) and Cost \$350 (Pass).
 - Financial Modeling: Rate 75% (Fail) AND Cost \$600 (Fail). Meets both conditions.

3.2 Answer: (A) \$48,000

- **Explanation:** First, find the number of participants who completed the program:
 - $120 \text{ (Total Participants)} \times 80\% \text{ (Completion Rate)} = 96 \text{ participants}$.
 - Then, multiply by the cost: $96 \times \$500 \text{ (Cost per Participant)} = \$48,000$

3.3 Answer: Leadership Skills = Meets Criteria; Software Mastery = Does Not Meet Criteria; Financial Modeling = Meets Criteria

- **Explanation:** The required condition is (Cost $> \$550$) OR (Rate $< 85\%$).
 - Leadership Skills: Rate is 80% (which is $< 85\%$). Meets Criteria.
 - Software Mastery: Rate is 90% (Pass) and Cost is \$350 (Pass). Does Not Meet Criteria.
 - Financial Modeling: Rate is 75% (which is $< 85\%$) AND Cost is \$600 (which is $> \$550$). Since the condition is OR, it Meets Criteria.