

## GMAT Data Insights Sample Paper 1

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### Section A: Data Sufficiency (Questions 1 to 5)

*Instructions: Each question has a main question followed by two statements. Decide whether the statements provide sufficient information to answer the question.*

*Answer choices for all Data Sufficiency questions: A. Statement 1 alone is sufficient, but Statement 2 alone is not sufficient. B. Statement 2 alone is sufficient, but Statement 1 alone is not sufficient. C. Both statements together are sufficient, but neither alone is sufficient. D. Each statement alone is sufficient. E. Both statements together are not sufficient.*

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#### Question 1

A factory produces two products, X and Y. What is the total number of units produced in a week?

Statement 1: The factory produces 3 times as many units of X as Y. Statement 2: The factory produces 240 units of X per week.

**Answer: C** *Explanation: Statement 1 gives the ratio ( $X = 3Y$ ) but no absolute value. Statement 2 gives  $X = 240$  but without the ratio you cannot find Y. Together:  $Y = 240$  divided by 3 = 80, so total = 240 plus 80 = 320 units.*

#### Question 2

Is integer N divisible by 6?

Statement 1: N is divisible by 3. Statement 2: N is divisible by 2.

**Answer: C** *Explanation: Divisibility by 6 requires both divisibility by 2 and by 3. Neither statement alone guarantees both conditions. Together they confirm N is divisible by both 2 and 3, so N is divisible by 6.*

#### Question 3

A rectangular garden has an area of 120 square metres. What is its perimeter?

Statement 1: The length of the garden is 15 metres. Statement 2: The width of the garden is 8 metres.

**Answer: D** *Explanation: Area = length times width = 120. Statement 1: length = 15, so width = 120 divided by 15 = 8. Perimeter = 2(15 plus 8) = 46 metres. Sufficient alone. Statement 2: width = 8, so length = 120 divided by 8 = 15. Perimeter = 46 metres. Sufficient alone.*

#### Question 4

In a class of students, what percentage scored above 80 marks?

Statement 1: 18 students scored above 80 marks. Statement 2: The total number of students in the class is 60.

**Answer: C** *Explanation: Neither statement alone gives both the count of students above 80 and the total. Together: 18 divided by 60 times 100 = 30%.*

#### Question 5

What is the value of  $x$  squared plus  $y$  squared?

Statement 1:  $x + y = 10$  Statement 2:  $xy = 20$

**Answer: C** *Explanation:  $x$  squared plus  $y$  squared =  $(x + y)$  squared minus  $2xy$ . Statement 1 gives  $(x + y) = 10$  so  $(x + y)$  squared = 100. Statement 2 gives  $xy = 20$  so  $2xy = 40$ . Together:  $x$  squared plus  $y$  squared = 100 minus 40 = 60.*

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### Section B: Table Analysis (Questions 6 to 9)

*Instructions: Use the table to determine whether each statement is true or false based only on the information provided.*

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#### Question 6

The table below shows the quarterly revenue (in INR crores) of five companies in 2025.

Company	Q1	Q2	Q3	Q4
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Alpha	120	135	110	150
Beta	90	95	100	88
Gamma	200	185	210	225
Delta	75	80	70	85
Epsilon	160	170	165	155

For each statement, select True or False.

A. Gamma had the highest revenue in every quarter. B. Beta's revenue declined in Q4 compared to Q3. C. The combined Q1 revenue of Alpha and Delta exceeds the Q1 revenue of Epsilon.

**Answer Key:** A. True — Gamma leads in all four quarters. B. True — Beta Q3 = 100, Q4 = 88. Decline confirmed. C. False — Alpha Q1 plus Delta Q1 = 120 plus 75 = 195. Epsilon Q1 = 160. 195 exceeds 160, so this is actually True.

*Correction: C is True. Alpha (120) plus Delta (75) = 195, which exceeds Epsilon's 160.*

### Question 7

The table below shows the number of employees in four departments across three years.

Department	2023	2024	2025
Sales	45	52	60
Operations	80	75	70
HR	30	33	38
Technology	55	65	80

For each statement, select True or False.

A. The Technology department had the highest growth in absolute terms from 2023 to 2025. B. Operations is the only department that declined over the three-year period. C. Total company headcount increased from 2023 to 2025.

**Answer Key:** A. True — Technology grew by 25 (from 55 to 80). Sales grew by 15, HR by 8, Operations declined by 10. Technology had the highest absolute growth. B. True — Sales, HR, and Technology all increased. Only Operations declined. C. True — 2023 total = 210. 2025 total = 248. Headcount increased.

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### Section C: Multi-Source Reasoning (Questions 10 to 13)

*Instructions: The questions refer to the information provided in the tabs below. Some questions can be answered from a single tab, others require information from multiple tabs.*

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#### Question 8 to 10 — Source Material

**Tab 1: Company Background** EduTech Solutions is an online education company founded in 2018. It offers three product lines: School Programs (for grades 1 to 12), Professional Certifications, and Corporate Training. The company operates in India, Southeast Asia, and the Middle East.

**Tab 2: Financial Summary 2024** Total Revenue: INR 85 crore Revenue breakdown: School Programs 45%, Professional Certifications 35%, Corporate Training 20% Operating costs: INR 60 crore Net profit margin: 12%

**Tab 3: Growth Report** School Programs grew by 18% year-on-year. Professional Certifications declined by 5% due to increased competition. Corporate Training grew by 30% and is projected to become the highest-revenue segment by 2027. The company plans to enter two new markets in 2025.

#### Question 8

Which product line generated the highest revenue in 2024?

A. School Programs B. Professional Certifications C. Corporate Training D. Cannot be determined

**Answer: A** *Explanation: School Programs = 45% of INR 85 crore = INR 38.25 crore. Professional Certifications = 35% = INR 29.75 crore. Corporate Training = 20% = INR 17 crore. School Programs is highest.*

### Question 9

What was EduTech Solutions' net profit in 2024?

A. INR 10.2 crore B. INR 12 crore C. INR 25 crore D. INR 8.5 crore

**Answer: A** *Explanation: Net profit = 12% of INR 85 crore = INR 10.2 crore.*

### Question 10

Based on the available information, which statement is best supported?

A. Corporate Training will surpass School Programs in revenue before 2027. B. Professional Certifications will recover its revenue decline by 2026. C. Corporate Training is growing faster than any other segment. D. The company will exit the Middle East market in 2025.

**Answer: C** *Explanation: Tab 3 states Corporate Training grew by 30%, which is higher than School Programs (18%) and higher than Professional Certifications which declined. Option A goes beyond what the data supports. Option B is not mentioned. Option D contradicts the expansion plan.*

### Question 11

Which tab provides information needed to calculate EduTech's operating profit?

A. Tab 1 only B. Tab 2 only C. Tab 3 only D. Tabs 1 and 2

**Answer: B** *Explanation: Operating profit = Total Revenue minus Operating Costs = INR 85 crore minus INR 60 crore = INR 25 crore. Both figures are in Tab 2.*

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## Section D: Graphics Interpretation (Questions 14 to 16)

Instructions: Each question refers to a graph or chart. Fill in the blank with the correct value or select the correct option.

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### Question 12

The bar chart below shows monthly sales (in units) for a retail store across six months.

Month	Units Sold
January	400
February	350
March	500
April	480
May	520
June	390

The average monthly sales across all six months is \_\_\_\_\_ units.

**Answer: 440 units** Explanation: Total = 400 plus 350 plus 500 plus 480 plus 520 plus 390 = 2,640. Average = 2,640 divided by 6 = 440.

### Question 13

Using the same data, the month with the greatest decline compared to the previous month is \_\_\_\_\_.

**Answer: February** Explanation: January to February declined by 50 units (400 to 350). March to April declined by 20 (500 to 480). May to June declined by 130 (520 to 390). February shows a decline but June shows the largest absolute decline. Correct answer: June.

Correction: June declined by 130 units (520 to 390), which is the greatest decline. Answer is June.

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### Question 14

A pie chart shows the distribution of a company's annual budget across five departments.

Department	Budget Share
Marketing	25%
Operations	30%
HR	10%
Technology	20%
Finance	15%

If the total annual budget is INR 4 crore, the Technology department's budget is INR \_\_\_\_\_ lakh.

**Answer: INR 80 lakh** *Explanation: Technology = 20% of INR 4 crore = INR 0.8 crore = INR 80 lakh.*

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### Section E: Two-Part Analysis (Questions 17 to 20)

*Instructions: Each question has two columns. Select one answer from each column that together satisfy the condition described.*

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### Question 15

A company wants to hire exactly 10 new employees. It is considering candidates from two pools: experienced professionals and fresh graduates. The company wants to hire more experienced professionals than fresh graduates, and the number of fresh graduates must be at least 3.

In the table below, select the number of experienced professionals and the number of fresh graduates that satisfy both conditions.

Option	Experienced Professionals	Fresh Graduates
A	8	2
B	7	3
C	6	4
D	5	5

**Answer: B (7 experienced, 3 fresh graduates)** *Explanation: Total must equal 10. Fresh graduates must be at least 3 so Option A is eliminated (only 2). Experienced must be more than fresh graduates so Option C (6 vs 4) and Option D (5 vs 5) are eliminated. Option B: 7 experienced, 3 fresh graduates. 7 is greater than 3, total is 10, fresh graduates equals minimum of 3. All conditions satisfied.*

### Question 16

Two investors, A and B, are dividing an investment of INR 1,00,000. Investor A must contribute at least INR 40,000. Investor B must contribute at least INR 30,000. Together they must invest the full amount.

Select a valid contribution for Investor A and a valid contribution for Investor B.

Option	Investor A	Investor B
A	40,000	60,000
B	50,000	50,000
C	60,000	40,000
D	70,000	30,000

**Answer: Any of A, B, C, or D are valid.** *Explanation: All options total INR 1,00,000. Investor A contributes at least 40,000 in all options. Investor B contributes at least 30,000 in all options. All four options satisfy both conditions. In the actual GMAT, the*

question would narrow this further with an additional constraint. As written, all are valid — this tests the student's ability to verify multiple conditions simultaneously.

### Question 17

A school offers two elective subjects: Art and Music. Each student must choose at least one. In a class of 40 students, 25 chose Art and 20 chose Music.

Select the number of students who chose only Art and the number who chose both Art and Music.

Option	Only Art	Both Art and Music
A	15	10
B	20	5
C	10	15
D	25	0

**Answer: A (15 chose only Art, 10 chose both)** *Explanation: Using the formula: Total = Only Art plus Only Music plus Both. Both = Art plus Music minus Total = 25 plus 20 minus 40 = 5. Only Art = 25 minus 5 = 20. Only Music = 20 minus 5 = 15.*

*Correction: Both = 5, Only Art = 20. Answer is B.*

### Question 18

A logistics company ships two types of cargo: perishable and non-perishable. In a given week, the total number of shipments is 150. Perishable shipments cost INR 500 each. Non-perishable shipments cost INR 300 each. The total shipping cost for the week is INR 57,000.

Select the number of perishable shipments and the number of non-perishable shipments.

Option	Perishable	Non-Perishable
A	60	90

B	75	75
C	90	60
D	45	105

**Answer: A (60 perishable, 90 non-perishable)** *Explanation: Let perishable =  $p$ , non-perishable =  $n$ .  $p$  plus  $n = 150$ .  $500p$  plus  $300n = 57,000$ . From first equation  $n = 150$  minus  $p$ . Substituting:  $500p$  plus  $300(150$  minus  $p) = 57,000$ .  $500p$  plus  $45,000$  minus  $300p = 57,000$ .  $200p = 12,000$ .  $p = 60$ .  $n = 90$ .*