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## RIE CEE 2026 Important Reasoning Questions

**Exam:** RIE CEE 2026

**Section:** Mental Ability & Reasoning

**Questions Covered:** 20 Q&A

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## 20 Important Reasoning Questions with Answers

Questions sourced from Shiksha.com's RIE CEE 2026 article. Each question includes the correct answer and a step-by-step explanation. Topic tags help you map each question to the weightage table above.

**Q** [Topic: **Number Series**] In the series 2, 6, 18, 54, \_\_, what is the next number?

1.

- (A) 108
- (B) 162
- (C) 144
- (D) 216

✓ **Answer: (B) 162**

*Explanation: Each term is multiplied by 3. So  $54 \times 3 = 162$ .*

**Q** [Topic: **Coding–Decoding**] If CAT is coded as 3120, how is DOG coded?

2.

- (A) 4157
- (B) 41715
- (C) 4715
- (D) 47015

✓ **Answer: (B) 41715**

*Explanation: C=3, A=1, T=20 → CAT=3120. D=4, O=15, G=7 → DOG=41715.*

**Q** [Topic: **Blood Relations**] Pointing to a girl, Ram says 'She is the only daughter of my father's wife'. How is the girl related to Ram?

3.

- (A) Niece
- (B) Sister
- (C) Cousin
- (D) Daughter

✓ **Answer: (B) Sister**

*Explanation: Father's wife = Ram's mother. Mother's only daughter = Ram's sister.*

**Q** [Topic: **Direction & Distance**] A man walks 5 km North, then turns East and walks 3 km, then turns South and walks 5 km. How far is he from the starting point?

4.

- (A) 8 km
- (B) 5 km
- (C) 3 km
- (D) 13 km

✓ **Answer: (C) 3 km**

*Explanation: The North and South movements cancel. He is 3 km East of the start.*

**Q 5.** [Topic: **Syllogism**] Statements: All dogs are animals. All animals are living beings. Conclusion I: All dogs are living beings. Conclusion II: Some animals are dogs.

- (A) Only I follows
- (B) Only II follows
- (C) Both follow
- (D) Neither follows

✓ **Answer: (C) Both follow**

*Explanation: All dogs are animals AND all animals are living beings  $\rightarrow$  all dogs are living beings (I). Since all dogs are animals, at least some animals are dogs (II).*

**Q 6.** [Topic: **Classification**] Which is the odd one out? 8, 27, 64, 100, 125

- (A) 27
- (B) 64
- (C) 100
- (D) 125

✓ **Answer: (C) 100**

*Explanation:  $8=2^3$ ,  $27=3^3$ ,  $64=4^3$ ,  $125=5^3$  are all perfect cubes. 100 is not a perfect cube.*

**Q 7.** [Topic: **Ranking & Order**] In a class of 40 students, Riya's rank from the top is 14. What is her rank from the bottom?

- (A) 26
- (B) 27
- (C) 28
- (D) 25

✓ **Answer: (B) 27**

*Explanation: Rank from bottom = (Total + 1) – Rank from top =  $41 - 14 = 27$ .*

**Q 8.** [Topic: **Mathematical Operations**] If '+' means '÷', '-' means '×', '×' means '+', '÷' means '-', then:  $8 + 4 - 3 \times 2 \div 1 = ?$

- (A) 7
- (B) 9
- (C) 5
- (D) 11

✓ **Answer: (A) 7**

*Explanation: Substituting:  $8 \div 4 \times 3 + 2 - 1 = 2 \times 3 + 2 - 1 = 6 + 2 - 1 = 7$ .*

**Q** [Topic: **Letter Series / Analogy**] DEF : GHI :: JKL : ?

**9.**

- (A) MNO
- (B) MOP
- (C) NOP
- (D) LMN

✓ **Answer: (A) MNO**

*Explanation: Each letter is shifted by 3 positions: D→G, E→H, F→I; similarly J→M, K→N, L→O.*

**Q** [Topic: **Calendar**] How many days are there from 1st March 2025 to 1st April 2025?

**1**

**0.**

- (A) 29
- (B) 30
- (C) 31
- (D) 28

✓ **Answer: (C) 31**

*Explanation: March has 31 days, so from 1 March to 1 April = 31 days.*

**Q** [Topic: **Venn Diagram**] In a Venn diagram, Circle A = Doctors, Circle B = Singers. The overlapping region represents:

**1**

**1.**

- (A) All Doctors
- (B) All Singers
- (C) People who are both Doctors and Singers
- (D) Neither

✓ **Answer: (C) People who are both Doctors and Singers**

*Explanation: The intersection of two sets contains elements belonging to both sets.*

**Q** [Topic: **Number Series**] Find the missing term: 3, 7, 13, 21, 31, \_\_

**1**

**2.**

- (A) 41
- (B) 43
- (C) 45
- (D) 47

✓ **Answer: (B) 43**

*Explanation: Differences: 4, 6, 8, 10, 12 (increasing by 2). So next = 31 + 12 = 43.*

**Q** [Topic: **Statement–Conclusion**] Statement: All teachers are educated. Ravi is educated. Conclusion: Ravi is a teacher.  
**1**  
**3.**

- (A) Conclusion follows
- (B) Conclusion does not follow
- (C) Partially follows
- (D) Cannot be determined

✓ **Answer: (B) Conclusion does not follow**

*Explanation: Being educated does not mean one must be a teacher; the conclusion is not valid.*

**Q** [Topic: **Calendar**] If 15th August 2025 is a Friday, what day is 1st September 2025?  
**1**  
**4.**

- (A) Monday
- (B) Tuesday
- (C) Wednesday
- (D) Thursday

✓ **Answer: (A) Monday**

*Explanation: From 15 Aug to 1 Sep = 17 days = 2 weeks + 3 days. Friday + 3 = Monday.*

**Q** [Topic: **Analogy (Word)**] Book : Library :: Painting : ?  
**1**  
**5.**

- (A) Museum
- (B) Artist
- (C) Canvas
- (D) Gallery

✓ **Answer: (D) Gallery**

*Explanation: Books are kept/displayed in a Library; Paintings are displayed in a Gallery.*

**Q** [Topic: **Clock**] A clock shows 3:15. What is the angle between the hour and minute hands?  
**1**  
**6.**

- (A) 7.5°
- (B) 0°
- (C) 15°
- (D) 22.5°

✓ **Answer: (A) 7.5°**

*Explanation: At 3:15, minute hand = 90°. Hour hand = 90° + 15×0.5° = 97.5°. Difference = 7.5°.*

**Q** [Topic: **Coding–Decoding**] In a certain code, MANGO is written as NBOHP. How is APPLE written?

**1**  
**7.**

- (A) BQQMF
- (B) BPQMF
- (C) BQQNF
- (D) BQQLF

✓ **Answer: (A) BQQMF**

*Explanation: Each letter is shifted +1: M→N, A→B, N→O, G→H, O→P. Similarly A→B, P→Q, P→Q, L→M, E→F.*

**Q** [Topic: **Syllogism**] Statements: Some cats are dogs. All dogs are white. Which conclusion definitely follows?

**1**  
**8.**

- (A) All cats are white
- (B) Some cats are white
- (C) All white are cats
- (D) No cat is white

✓ **Answer: (B) Some cats are white**

*Explanation: Some cats are dogs + All dogs are white → Some cats are white (by syllogism).*

**Q** [Topic: **Calendar**] If the day before yesterday was Thursday, what day will it be the day after tomorrow?

**1**  
**9.**

- (A) Sunday
- (B) Monday
- (C) Tuesday
- (D) Wednesday

✓ **Answer: (B) Monday**

*Explanation: Day before yesterday = Thursday → Yesterday = Friday → Today = Saturday → Tomorrow = Sunday → Day after tomorrow = Monday.*

**Q** [Topic: **Ranking & Order**] In a row of students, Ankit is 8th from left and 12th from right. How many students are in the row?

**2**  
**0.**

- (A) 18
- (B) 19
- (C) 20
- (D) 21

✓ **Answer: (B) 19**

*Explanation: Total = (Left rank + Right rank - 1) = 8 + 12 - 1 = 19.*