

Fractal Analytics Placement Papers 2026

15 MCQs with answer key · Free download

Questions

Q1. [Quantitative] A project is 40% complete in 12 days. At same rate, total days to finish? [Fractal Analytics paper]

- A) 30
- B) 28
- C) 36
- D) 24

Q2. [Reasoning] All managers are analysts. Some analysts are partners. Conclusions: I Some managers are partners. II Some analysts are managers. [Fractal Analytics paper]

- A) Only II
- B) Only I
- C) Both
- D) Neither

Q3. [Quantitative] HCF of 21 and 9 is:

- A) 3
- B) 63
- C) 21
- D) 9

Q4. [Quantitative] A game: Win \$100 with 30% probability, lose \$50 with 70% probability. Expected value?

- A) $-200 \times 100 + 0.7 \times (-50) = 30 - 35 = -\5
- B) Cannot be determined
- C) $200 \times 100 + 0.7 \times (-50) = 30 - 35 = -\5
- D) $0.3 \times 100 + 0.7 \times (-50) = 30 - 35 = -\5

Q5. [Quantitative] A train 150 meters long is running at a speed of 60 km/h. In how much time will it pass a pole?

- A) 7 seconds
- B) 11 seconds
- C) 209 seconds
- D) 9 seconds

Q6. [Quantitative] HCF of 13 and 24 is:

- A) 1
- B) 312
- C) 13
- D) 24

Q7. [Quantitative] A finishes in 16 days, B in 24 days. Days together?

- A) 9.6 days
- B) 20.0 days
- C) 16 days
- D) 16 days

Q8. [Quantitative] HCF of 16 and 7 is:

- A) 1
- B) 112
- C) 16
- D) 7

Q9. [Quantitative] The LCM of 12 and 18 is:

- A) 36
- B) 24
- C) 48
- D) 30

Q10. [Quantitative] A car covers 180 km in 3 hours. Average speed is:

- A) 60 km/h
- B) 50 km/h
- C) 45 km/h
- D) 55 km/h

Q11. [Quantitative] Find the remainder when 2^{31} is divided by 5.

- A) 3
- B) 2
- C) -197
- D) 203

Q12. [Quantitative] HCF of 13 and 5 is:

- A) 1
- B) 65
- C) 13
- D) 5

Q13. [Quantitative] HCF of 24 and 17 is:

- A) 1
- B) 408
- C) 24
- D) 17

Q14. [Quantitative] HCF of 11 and 13 is:

- A) 1
- B) 143
- C) 11
- D) 13

Q15. [Quantitative] If "CAT" is coded as "3120", how is "DOG" coded? (A=1, B=2, C=3...)

- A) 4,988
- B) 4,357
- C) 4157
- D) 3,326

Answer Key & Explanations

Q1. A

$12/0.4 = 30$ days.

Q2. A

II follows; I does not.

Q3. A

$\gcd(21,9)=3$.

Q4. D

Correct answer: $0.3 \times 100 + 0.7 \times (-50) = 30 - 35 = -\5

Q5. D

Speed = 60 km/h = $60 \times 5/18 = 50/3$ m/s Distance = 150 meters Time = Distance/Speed = $150 / (50/3) = 150 \times 3/50 = 9$ seconds

Q6. A

$\gcd(13,24)=1$.

Q7. A

$1/16 + 1/24$!' 9.6 days.

Q8. A

$\gcd(16,7)=1$.

Q9. A

$\text{LCM}(12,18) = 36$.

Q10. A

Speed = $180/3 = 60$ km/h.

Q11. A

Pattern of $2^n \bmod 5$: $2^1=2, 2^2=4, 2^3=3, 2^4=1, 2^5=2$ (cycle repeats every 4) $31 \bmod 4 = 3$ So $2^{31} \bmod 5 = 2^3 \bmod 5 = 3$

Q12. A

$\gcd(13,5)=1$.

Q13. A

$\gcd(24,17)=1$.

Q14. A

$\gcd(11,13)=1$.

Q15. C

Correct answer: 4157