Quantitative Aptitude — Free Notes

Simplification, number series, data interpretation, percentages, profit and loss, interest, time and work, speed and distance.

Key topics

Simplification & Approximation: BODMAS, squares to 30, cubes to 20, fraction-percentage table.

Data Interpretation: Tables, bar, line and pie charts; calculate only what is asked.

Percentage, Profit & Loss: Profit % on cost price; successive change a + b + ab/100.

Simple & Compound Interest: SI = PRT/100; CI = P(1 + R/100)^T − P.

Time & Work, Pipes: Use LCM of days as total work.

Speed, Distance & Time: km/h × 5/18 = m/s; relative speed for trains and boats.

Ratio, Average, Mixtures: Alligation method for mixtures; average = sum / count.

Study tips

• Learn tables to 20 and squares to 30.
• Do one timed DI set daily.
• Keep a formula sheet and revise it weekly.

Practice questions

1. What is 25% of 480?
(A) 100 (B) 120 (C) 140 (D) 96
Answer: B. 25% = 1/4, so 480 / 4 = 120.

2. An item bought for ₹800 is sold for ₹1,000. Profit %?
(A) 20% (B) 25% (C) 15% (D) 30%
Answer: B. Profit = 200; 200/800 × 100 = 25%.

3. Simple interest on ₹5,000 at 8% per year for 3 years?
(A) ₹1,000 (B) ₹1,200 (C) ₹1,500 (D) ₹1,800
Answer: B. SI = 5000 × 8 × 3 / 100 = ₹1,200.

4. A can finish a job in 10 days and B in 15 days. Together they take:
(A) 5 days (B) 6 days (C) 8 days (D) 12 days
Answer: B. Total work 30 units; A = 3/day, B = 2/day; 30/5 = 6 days.

5. A train at 72 km/h covers how many metres per second?
(A) 15 (B) 20 (C) 25 (D) 18
Answer: B. 72 × 5/18 = 20 m/s.

6. Average of 12, 18, 24 and 30?
(A) 20 (B) 21 (C) 22 (D) 24
Answer: B. Sum 84 / 4 = 21.

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