





Campus K D Campus Pvt. Ltd 1997, GROUND FLOOR OPPOSITE MUKHERJEE NAGAR POLICE STATION, OUTRAM LINES, GTB NAGAR, NEW DELHI – 09 P = ₹ $\frac{101.50 \times 10000}{609}$ = ₹ $\frac{1015000}{609}$ ∴ S.I.= $\frac{1015000 \times 2 \times 3}{609 \times 100} = ₹ 100$ 15. (C) Let the original number of students in three classes be 2x, 3x and 5x respectively. As given, $\frac{2x+20}{3x+20} = \frac{4}{5}$ 10x + 100 = 12x + 8012x - 10x = 100 - 802x = 20 $x = \frac{20}{2} = 10$ Total number of students originally = 2x + 3x + 5x = 10x $= 10 \times 10 = 100$ 16. (A) $A \rightarrow 10$ $\begin{array}{c} A \rightarrow 10 \\ B \rightarrow 20 \end{array} \xrightarrow[]{6}{60} \text{Total capacity} \\ \overline{C} \rightarrow -12 \end{array} \xrightarrow[]{-5}{60} \text{Total capacity} \\ \text{of tank} \end{array}$ Water filled by all the three pipes (A + B + C) in 3 hours = (6 + 3 - 5) = 4 units Time Work done 3 hours 4 units ↓×13 ↓×13 39 hours 52 units Remaining work = (60 - 52) = 8 units Work done by A on 14th day = 6 units Remaining work = (8 - 6) = 2 units Required time = $\frac{2}{3}$ hours Total required time = $39 + 1 + \frac{2}{3} = 40\frac{2}{3}$ hours 17. (B) A $\frac{AB}{BC} = \frac{2}{1}$ AB = 2k, BC = kAC = $\sqrt{(2k)^2 + k^2} = \sqrt{5k^2} = \sqrt{5k}$ 09555108888, 0955











Campus K D Campus Pvt. Ltd 1997, GROUND FLOOR OPPOSITE MUKHERJEE NAGAR POLICE STATION, OUTRAM LINES, GTB NAGAR, NEW DELHI – 09 53. (D) Work done by A in 1 h = Work done by A, B and C in 1 hr Work done by B and C in 1 h = $\frac{3}{8} - \frac{1}{4} = \frac{1}{8}$ \therefore Work done by A and B in 1 h = $\frac{1}{8} + \frac{1}{6} = \frac{7}{24}$ Hence, A and B complete the piece of work in $\frac{24}{7}$, *i.e.*, in $3\frac{3}{7}$ day (B) Let Brij joined after x months. 54. Then, $550 \times 12 : 330 \times (12 - x) = 10 : 3$ $\frac{5 \times 12}{3 \times (12 - x)} = \frac{10}{3}$ $\frac{6}{12-x} = 1$ 6 = 12 - xx = 12 - 6 = 6Hence, Brij joined after 6 months. (B) Let number of fridges produced in first year be 'a' and production increase by 'd' every year. 55. Clearly, production every year will make an AP. Then, Production in the third year,(i) a + 2d = 600and production in the seventh year, a + 6d = 700... (ii) On solving both equation, we get a = 550, d = 25Now, total production in 7 years = $\frac{n}{2}[2a + (n-1)d]$ $= \frac{7}{2} \left[2 \times 550 + 6 \times 25 \right]$ $=\frac{7}{2} \times 1250 = 4375$ (B) According to the first condition, 56. $x - 20 = \frac{y}{2}$ 2x - 40 = y2x - y = 40According to the second condition, $40 + x + y + 60 = 100 \times 3$ x + y = 200

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Campus K D Campus Pvt. Ltd 1997, GROUND FLOOR OPPOSITE MUKHERJEE NAGAR POLICE STATION, OUTRAM LINES, GTB NAGAR, NEW DELHI – 09 -8x = -10y $\frac{x}{y} = \frac{10}{8} = \frac{5}{4}$ $\therefore x:y=5:4$ 70. (A) Let Ram and Shyam weights are = 4x and 5x respectively Now, Their previous weight (sum) $\frac{82.8}{115}$ × 100 = 72 kg According to question, 5x + 4x = 72 $\therefore x = 8$ Ram's weight = $8 \times 4 = 32$ kg Shyam's weight = $5 \times 4 = 40$ kg Their increased weight = 82.8 - 72 = 10.8 kg Ram's weight = $32 \times 10\%$ = 3.2 kg Shyam's increased weight = [10.8 - 3.2] = 7.6 kg :. % increase = $\frac{7.6}{40} \times 100 = 19\%$ 71. (D) Let all (175) children were to get x sweets. ATQ, 140(x + 4) = 175x560 = 175x - 140x $x = \frac{560}{35} = 17$ \therefore Sweets to be distributed = $16 \times 175 = 2800$ 72. (D) Total CP of [25 kg + 35 kg] rice = ₹ (25 × 16.50 + 35 × 24.50) = ₹ (412.50 + 857.50) = ₹ 1270 SP at the rate of 25% profit = ₹ [1270 × 1.25] = ₹ 1587.5 ∴ Required rate = $\frac{1587.5}{60}$ = ₹ 26.45 per kg 73. (A) Wine : Water = Total Initially by 3 : 1 4 option (A) $\frac{1}{3} \operatorname{process} \qquad \left(-\frac{3}{3}\right) \quad : \qquad \left(-\frac{1}{3} + \frac{4}{3}\right) \qquad \frac{4}{3}$ Final ratio $\left(3 - \frac{3}{3}\right) : \left(1 - \frac{1}{3} + \frac{4}{3}\right) = 1 : 1$ 5108888, 095













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99.
(A) Total number of A type of employees in 1998 = 48640
$$\times \frac{22}{100}$$
 = 10700.80

124.
42.980 $\times \frac{100}{100}$ = 10700.80

42.980 $\times \frac{100}{100}$ = 10700.80

X = 25% (Approx)

C + D = 10 + 15 = 25%

So, C and D will be answer

97.
(B) Change in C = 42980 $\times \frac{10}{100}$ = 48640 $\times \frac{11}{100}$

= 4298 - 5350.40 = ~ 1052.4

Change in B = 42980 $\times \frac{20}{100}$ = 48640 $\times \frac{10}{100}$

- 2578.8 ~4864 = ~ 2285

Change in A = 42980 $\times \frac{20}{100}$ = 48640 $\times \frac{22}{100}$

= 8596 - 10700.80 = ~ 2104.8

Change in D = 42980 $\times \frac{15}{100}$ + 48640 $\times \frac{11}{100}$

= 6447 - 5350.40 = ~ 1098.6

So, Maximum change in B type of employees.

98.
(C) In above solution we found that change in type B employee = 2285

99.
(B) Approximate percentage - $\frac{5000}{48640} \times 100 - 10\%$

100.
(B) Type A employee in 1998 = 48640 $\times \frac{22}{100}$ = 10700.80

Type A employee in 1997 = 42980 $\times \frac{20}{100} = 8596$

Required % = $\frac{10700.80}{8596} \times 100 = 124.48\%$ or 125%

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QUANTITATIVE ABILITY - 83 (ANSWER KEY)

1.	(D)	26.	(A)	51.	(B)	76.	(D)
2.	(B)	27.	(B)	52.	(D)	77.	(C)
3.	(B)	28.	(A)	53.	(D)	78.	(B)
4.	(A)	29.	(A)	54.	(B)	79.	(B)
5.	(C)	30.	(D)	55.	(B)	80.	(B)
6.	(A)	31.	(B)	56.	(B)	81.	(A)
7.	(B)	32.	(A)	57.	(B)	82.	(B)
8.	(C)	33.	(B)	58.	(A)	83.	(B)
9.	(A)	34.	(A)	59 .	(B)	84.	(C)
10.	(A)	35.	(B)	60.	(D)	85.	(C)
11.	(A)	36.	(B)	61.	(C)	86.	(B)
12.	(A)	37.	(B)	62.	(D)	87.	(A)
13.	(A)	38.	(D)	63.	(C)	88.	(B)
14.	(C)	39.	(C)	64.	(B)	89.	(A)
15.	(C)	40.	(B)	65.	(A)	90.	(B)
16.	(A)	41.	(C)	66.	(C)	91.	(C)
17.	(B)	42.	(B)	67.	(D)	92.	(C)
18.	(B)	43.	(D)	68.	(A)	93.	(D)
19.	(D)	44.	(C)	69.	(A)	94.	(B)
20.	(C)	45.	(A)	70.	(A)	95.	(C)
21.	(D)	46.	(B)	71.	(D)	96.	(A)
22.	(D)	47.	(C)	72.	(D)	97.	(B)
23.	(C)	48.	(A)	73.	(A)	98.	(C)
24.	(C)	49.	(D)	74.	(C)	99.	(B)
25.	(A)	50.	(B)	75.	(D)	100	. (B)