## 57) The length and breadth of a rectangle is (x + 5) cm and (x-2) cm respectively. If the perimeter of the rectangle is 6 cm more than the perimeter of the square whose area is 400 cm2, then find the area of

### the rectangle?

$$P = 2(L+B)$$
= 2(1+5+2-2) = 2(22+3) = 86

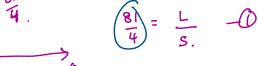
22+3 = 43

 $n = 20$ 

## 58) A train crosses a tower in 20.25 seconds and also crosses a 150 m long bridge in 27 seconds. Find the speed of the train?

- A. 60 kmph
- B. 72 kmph
- C.80 kmph
  - D.90 kmph
  - E. None of these

- 20.25 = 20 4 Sec.





area = (gide)2

$$S = \frac{186 \times 4}{27} = \frac{200 \text{ m/s}}{9} = \frac{150}{5} = \frac{27}{4} = \frac{23}{4}$$

$$\frac{1}{4} = \frac{1000 \, \text{m}}{3600 \, \text{s}} = \frac{5}{18} \, \frac{\text{m/s}}{\text{s}}$$

$$27 = \frac{L+150}{S}$$

$$27 = \begin{pmatrix} L \\ S \end{pmatrix} + \frac{150}{S}.$$

$$27 = \frac{81}{4} + \frac{150}{5}$$

- 59) The boat covers x km upstream in t hours and the same boat covers (x + 40) km downstream in (t-4) hours. If the speed of the stream is 7 kmph, then find the speed downstream?
- A. 32 kmph
- B. 25 kmph
- C.28 kmph
- D.35 kmph
- E Cannot be determined

y hearn - agant his current. downstream - with



Not speed = a-b.

 $\frac{2}{t} = a - b \cdot - 1$ 

domistream

Not speed = a+b. 2+40 = a+b -0

$$0 = 0 + 7$$
 $0 = 0 + 7$ 
 $0 = 0 + 7$ 
 $0 = 0 + 7$ 

The given information shows the total number of fans (ceiling and table) sold by four different shops A, B, C and D.

Celling Fan: Ratio of the number of Ceiling fans sold by shops A and B is 1:2 respectively and the difference between the number of Ceiling fans sold by shops A and D is 90 Number of Ceiling fans sold by shop C is 20% less than that of shop D. Number of Ceiling fans sold by shop C is 60% of number of Ceiling fans sold by

#### 62) Out of the number of table fans sold by shop B, 25% of table fans sold at a profit of 40% and the remaining table fans sold at a profit of 20%. If all the table fans sold for Rs. 1.5 lakh in shop B, then find the cost price of each table fan in shop B?

- A. Rs.800
- B. Rs.450
- C. Rs.600
- D.Rs.500
- E. None of these





$$\frac{2140}{1-4} = a+b - 2$$

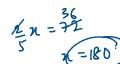
# Talle

- - 600
- 1026. 700.
- 1726

316.

380

- $\frac{6}{5}x = 807.(x+90) = \frac{8}{10}x + \frac{8}{10}x99.$ 
  - $\frac{6}{5}x \frac{4}{5}x = 72$



60x1407.n+180x1207.n = 150000.

84n + 216n = 150000

#### 63) Find the average number of ceiling fans sold by shops A, C and D together?

- A. 130
- **B**. 170
- C.222
- D. 110
- E. None of these

$$450+216 = \frac{664}{3}$$

- 64) If the total number of fans sold by shop E is 20% more than that of shop D and the ratio of number of table fans sold by shops E and D is 9:8 respectively, then find the number of celling fans sold by shop E?
- A 236
- B. 420
- C.280
- D. 150
- E. None of these

516-180

#### Reasoning Ability

Directions (66-70): Study the following Information carefully and answer the below

Ten persons-I, M, N, Q, P, Q, R, S, T, and U are attending the conference on two different dates either 9 or 11 of five different months-January, May, August, October, and December of the same year but not necessarily in the same

- 68) Four of the five among the following are similar in such a way to form a group, who among the following doesn't belong to the group?
- a) P
- b) R
- c) The one who attends immediately before U
- d) The one who attends two persons after N >>
  - e) Q

different months.

Dec.