

UBMS

	ABC	EB
1) ABC → \$40 monthly - \$2 per book	40 10	35 15
Easy Book → \$35 monthly \$3 per book.	— 50 —	— 50 —

2) 35 members.

3 officers → 32 members.

$$\frac{1}{32}$$

3) $2^5 \times 2^7 \rightarrow 2^{5+7} \rightarrow 2^{12}$
 $2^{2(x)+7} = 2^{15}$

$$2x+7 = 15$$

$$2x = 8$$

$$x = \frac{8}{2}$$

$$\boxed{x=4}$$

$$7) \quad 8\% \text{ of } 60 =$$

$$0.08 \times 60.$$

$$1\% \text{ of } 60 \rightarrow 0.6$$

$$8\% \text{ of } 60 \rightarrow 4.8.$$

$$\frac{1}{5} \text{ of } 24 \rightarrow 0.2 \times 24 \rightarrow \underline{4.8}$$

$$8) \quad \frac{x}{w+x+y+80} = 90 \rightarrow$$

$$\frac{x}{w+x+y+96} \text{ - new list}$$

$$\frac{280+96}{4} = \underline{94}$$

$$15\% \text{ of } 50.$$

$$10\% \text{ of } 50 \rightarrow \textcircled{5}$$

$$1\% \text{ of } 50 \rightarrow 0.5$$

$$15\% \rightarrow 7.5 //$$

$$\frac{x+80}{4} = 90$$

$$x+80 = 90 \times 4$$

$$x+80 = 360$$

$$\boxed{x = 280}$$

10) MEDIAN \rightarrow Middle number.

$$\text{Even} \rightarrow \frac{x+y}{2} \rightarrow \text{median}$$

odd \rightarrow 7 nos \rightarrow 4th median.

MODE \rightarrow 1, 2, 2, 3, 5, 5, 6.

Solⁿ Median = 25

Mode = 15

41, 35, 30, x, y, 15.

15, ¹⁵x, ²⁰y, 30, 35, 41 \rightarrow 15, 15, 20, 30, 35, 41.

$$\frac{x+30}{2} = 25$$

26

$$x+30 = 50$$

$$x = 50 - 30$$

$$\boxed{x = 20}$$