

## 1) Relation

□ → male

→ → sibling

○ → Female

⇒ → couple

↓ → Next generation

## 2) No/Analogy / Odd man out

step 1) difference

step 2) 2nd difference (if last no is very acc to series go for next)

step 3) pattern

## 3) Bar graph

$$\% \downarrow = \frac{\text{Diff}}{\text{Highest value}} \times 100\%$$

$$\% \uparrow = \frac{\text{Diff}}{\text{Lowest value}} \times 100\%$$

## 4) Data Sufficiency

Rule → If one of the statement (i) or (ii) answers alone then "DO NOT CONTINUE"



5) Clock

$$Q = 30H - \frac{11}{2}M$$

$$Q = \frac{11}{2}M - 30H$$

6) Work equivalence

$$\text{Chain Rule} \quad \frac{M_1 \times D_1 \times H_1}{W_1} = \frac{M_2 \times D_2 \times H_2}{W_2}$$

7) Permutation &amp; Combination

↓  
Arrangement↓  
selection

$${}^n P_r = \frac{n!}{(n-r)!}$$

$${}^n C_r = \frac{n!}{(n-r)! r!}$$

8) Probability

$$P(A) = \frac{n(A)}{n(S)}$$

9) Time, Speed &amp; Distance

$$S = \frac{D}{T}$$

 $T \text{ const} \rightarrow \text{Speed} \propto \text{Dist}$  $S \text{ const} \rightarrow T \propto D$  $D \text{ const} \rightarrow S \propto \frac{1}{T}$



convert

$$\frac{m}{\text{sec}} \rightarrow \frac{km}{\text{sec}}$$

$$\frac{m}{\text{sec}} \times \frac{5}{18} = \frac{km}{\text{sec}}$$

$$\frac{km}{\text{sec}} \rightarrow \frac{m}{\text{sec}} \rightarrow \frac{km}{\text{sec}} \times \frac{18}{5} = \frac{m}{\text{sec}}$$

10) Boat & streams

$$\text{Downstream} = B_s + \text{Stream speed}$$

$$\text{Upstream} = B_s - S_s$$

11) Percentage ↑ & ↓

$$\% \uparrow = \frac{\text{Incr Value} - \text{Original Val}}{\text{Or: V}} \times 100$$

$$\% \downarrow = \frac{\text{OV} - \text{DV}}{\text{OV}} \times 100$$

12) Interest

$$SI = P \times N \times R$$

$$CI = Y + Z$$