

$$21.5 + 0.5 = 22 \quad \text{TEST}$$

DOB - 5-10-2009

Name - Yogavansh Raj Singh Class - 8th

Ans-1 Remainwork = $1 - \frac{1}{4} = \frac{4-1}{4} = \frac{3}{4}$

$\frac{1}{2}$ Days taken = $1 \div \frac{3}{4} = 1 \times \frac{4}{3} = \frac{4}{3}$ Days

Ans-2 $\frac{1}{n}$ part $\cdot 1$

Ans-3 A's one ^{Sec} min type = $\frac{1}{30}$

B's one min type = $\frac{20}{2} = 10$

B's one Sec type = $\frac{1}{10}$

$(A+B)^S$ one Sec type = $\frac{1}{30} + \frac{1}{10}$
 $= \frac{1+3}{30}$

$= \frac{4}{30} = \frac{2}{15}$

$(A+B)^S$ one min type = $\frac{2}{15} \times 60$

Ans-3 A's one min type = $\frac{1}{30}$

B's one min type = $\frac{1}{10}$

$(A+B)^S$ one min. type = $\frac{1}{30} + \frac{1}{10}$

$= \frac{1+3}{30} = \frac{4}{30}$

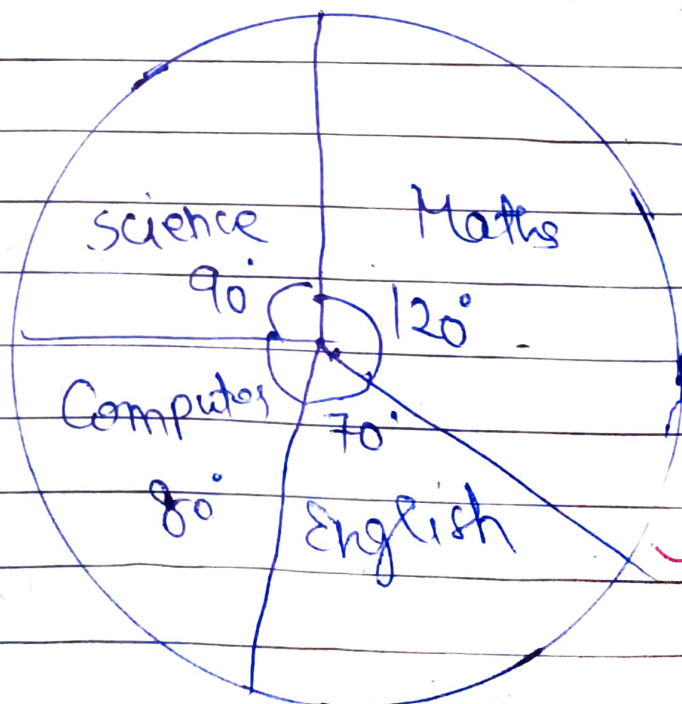
4.)

5.) English = $\frac{35}{180} \times 360^\circ = 70^\circ$

Computer = $\frac{40}{180} \times 360^\circ = 80^\circ$

Science = $\frac{45}{180} \times 360^\circ = 90^\circ$

Maths = $\frac{60}{180} \times 360^\circ = 120^\circ$

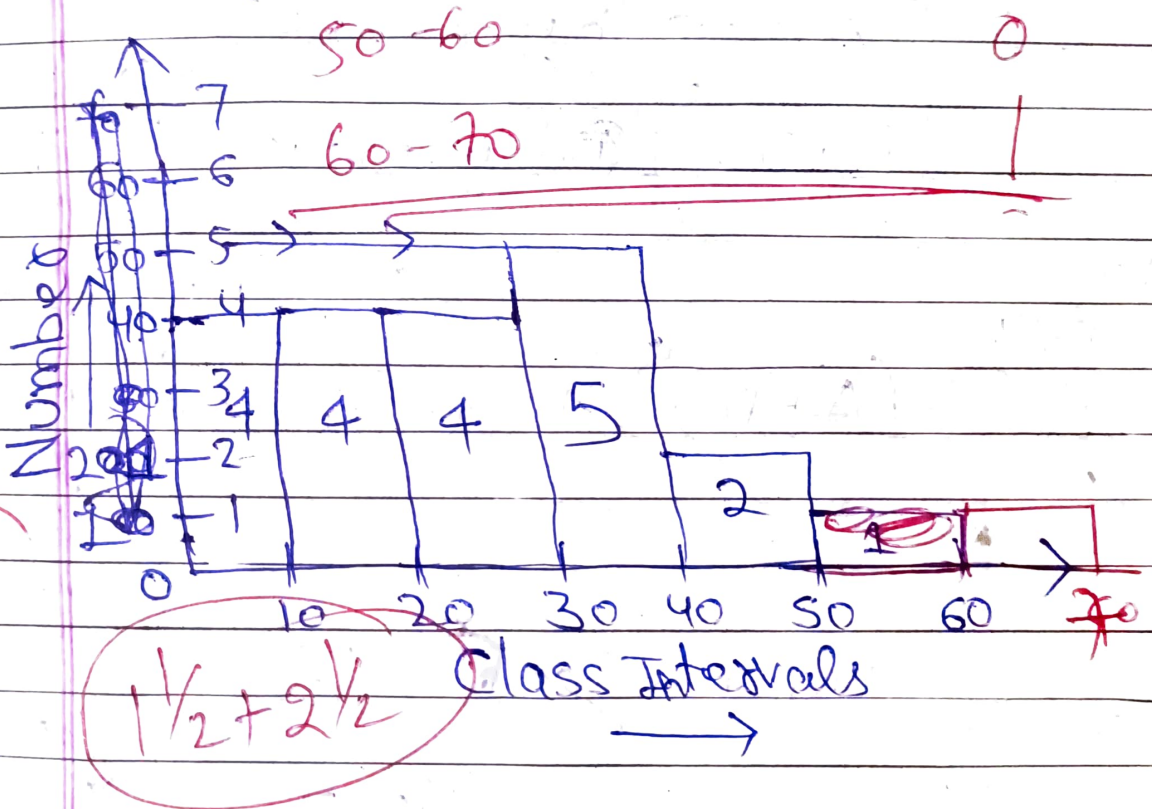


3 1/2

Date: _____
 Page: _____

6.)

Class intervals	frequency	Number
0-10		4
10-20		4
20-30		4
30-40		5
40-50		2
50-60		1
Total		20



7.) A's one day work = $\frac{1}{15}$

B's one day work = $\frac{1}{10}$

B's 5 days work = $\frac{1}{10} \times 5 = \frac{1}{2}$

remain work = $1 - \frac{1}{2} = \frac{2}{2} - \frac{1}{2} = \frac{1}{2}$

$$A \text{ can do the work} = \frac{1}{2} \div \frac{1}{15}$$

$$= \frac{1}{2} \times 15$$

$$= \frac{15}{2} = 7\frac{1}{2} \text{ Days}$$

$2\frac{1}{2}$

8.) A's one day work = $\frac{1}{15}$

B's one day work = $\frac{1}{20}$

$(A+B)$'s 1 day work = $\frac{1}{15} + \frac{1}{20}$

$$= \frac{4 + 3}{60} = \frac{7}{60}$$

$$\begin{array}{r} 2 \overline{) 15, 20} \\ 2 \overline{) 15, 10} \\ 3 \overline{) 15, 5} \\ 5 \end{array}$$

$(A+B)$'s

4 day work = $\frac{7}{60} \times 4$
 $= \frac{7}{15}$

$2\frac{1}{2}$

remain work = $1 - \frac{7}{15}$

$$= \frac{15-7}{15} = \frac{8}{15}$$

Ans a.) 3600 Students

b.) $\frac{\text{Science} - 1000}{\text{Arts} + 1200} = 5:6$

c.) 450 Students.

6

$$100^\circ = 1000$$

$$1^\circ = \frac{1000}{100}$$

$$360^\circ = 10 \times 360 = 3600$$

Ans-10. work = $1 + 3\frac{1}{2}$

$$= 1 + \frac{7}{2} = \frac{2+7}{2} = \frac{9}{2}$$

A's one day work = $\frac{1}{16}$

B's one day work = $\frac{1}{20}$

C's one day work = $\frac{1}{30}$

(A+B+C)'s one day work = $\frac{1}{16} + \frac{1}{20} + \frac{1}{30}$
 $= \frac{15+12+8}{240}$
 $= \frac{35}{240} = \frac{7}{48}$

(A+B+C)'s

new work Comple

$$= \frac{7}{48} \div \frac{9}{2}$$

$$= \frac{7}{48} \times \frac{2}{9} = \frac{7}{216} \text{ Days}$$

$$\begin{array}{r} 3 \\ 24 \\ \times 9 \\ \hline 216 \end{array}$$

$$\begin{aligned}
 \underline{\text{Ans-10}} \text{ New work} \\
 &= 3 \times \frac{7}{2} \\
 &= \frac{21}{2}
 \end{aligned}$$

$$\text{A's one Day work} = \frac{1}{16}$$

$$\text{B's one Day work} = \frac{1}{20}$$

$$\text{C's one Day work} = \frac{1}{30}$$

$$(\text{A+B+C})^s \text{ one Day work} = \frac{1}{16} + \frac{1}{20} + \frac{1}{30}$$

$$= \frac{15+12+8}{240}$$

$$= \frac{35}{240} = \frac{7}{48}$$

$$(\text{A+B+C})^s \text{ ~~one Day~~ to Do new work}$$

$$= \frac{7}{48} \div \frac{21}{2}$$

$$= \frac{7}{48} \times \frac{2}{21}$$

$$= \underline{72 \text{ Days.}}$$