

$$22.5 + \frac{1}{2}(1) \Rightarrow 23$$

$$\begin{array}{r} 12.06 \\ 5 \overline{) 38} \\ \underline{35} \\ 30 \\ \underline{30} \\ 0 \end{array}$$

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CLASS - 8<sup>th</sup>

SEC - C

Subject - MATHS

Roll No - 2

Date of Birth - 30/12/2004

Date - 30/Jan/2023

Test

Ques. 1 S. 1

Let work =  $x$ .

As a day he can do new work =  $\frac{1}{4}$

$$\Rightarrow \frac{1}{4} \times x = 8 \quad (2)$$

$$\Rightarrow x = 8 \times 4$$

$$\Rightarrow x = 32 \text{ day Ans.}$$

Ques. 2 S. 2

Fills the tank =  $n$  hours

one hour work =  $\frac{1}{n}$  hour

Part of the tank fill in one hour =  $\frac{1}{n}$  part.

(1)

(2) A  $\frac{1}{30}$  ~~2 min 20~~  
 B  $\frac{1}{20}$  ~~1 min 20~~

Ques 3 Solve 3 Person A type 30 words : 1 minute.  
 Person B type 20 words : 2 minutes.  
 Person B 1 min work =  $\frac{1}{20}$  words

Person A 1 min work =  $\frac{1}{30}$  words

Both work in 1 min =  $\frac{1}{20} + \frac{1}{30}$

~~15/20~~  $\frac{3+2}{60} = \frac{5}{60}$

Both type in 1 min =  $1 \div \frac{5}{60} = \frac{60}{5} = 12$

= 12 words

Ques 4: 34 A pipe can fill a cistern = 6 hours.  
 1 hour work =  $\frac{1}{6}$  hour.

Due to leak =  $\frac{1}{6}$  hour

1 hour work =  $\frac{1}{7}$  hour

Time taken due to leak = 7 hours.  
 one hour work =  $\frac{1}{7}$  hour

(3)

$$\Rightarrow \frac{1}{7} + \frac{1}{x} = \frac{1}{6}$$

$$\frac{1}{x} = \frac{1}{6} - \frac{1}{7}$$

$$\frac{1}{x} = \frac{7-6}{42}$$

$$x = 42 \text{ hours ans}$$

2 1/2

Que 5 55 Subjects = English  
Marks = 35

Computer = 40

Science = 45

Mathematics = 60

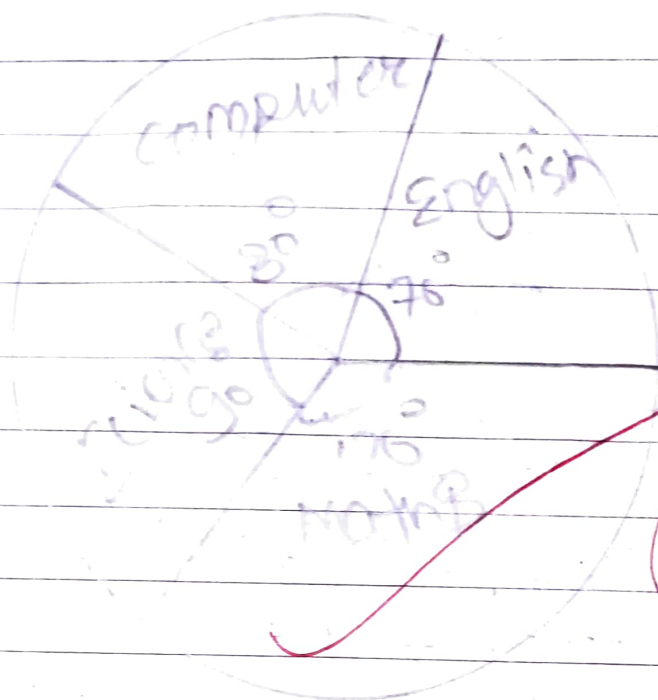
Total Marks = 180 Marks

6

Angle of		
Subject	Marks	Angle
English =	35	$\frac{35}{180} \times 360^\circ$
Computer =	40	$\frac{40}{180} \times 360^\circ$
Science	45	$\frac{45}{180} \times 360^\circ$
Maths	60	$\frac{60}{180} \times 360^\circ$

4

Date \_\_\_\_\_  
Page \_\_\_\_\_



$3\frac{1}{2}$

Ques. 68.6

~~No.~~

~~Frequency~~ No.

Minutes

No. of Minutes

0  
1  
2  
3  
4  
5  
6  
7  
8  
9  
10

0

— 11

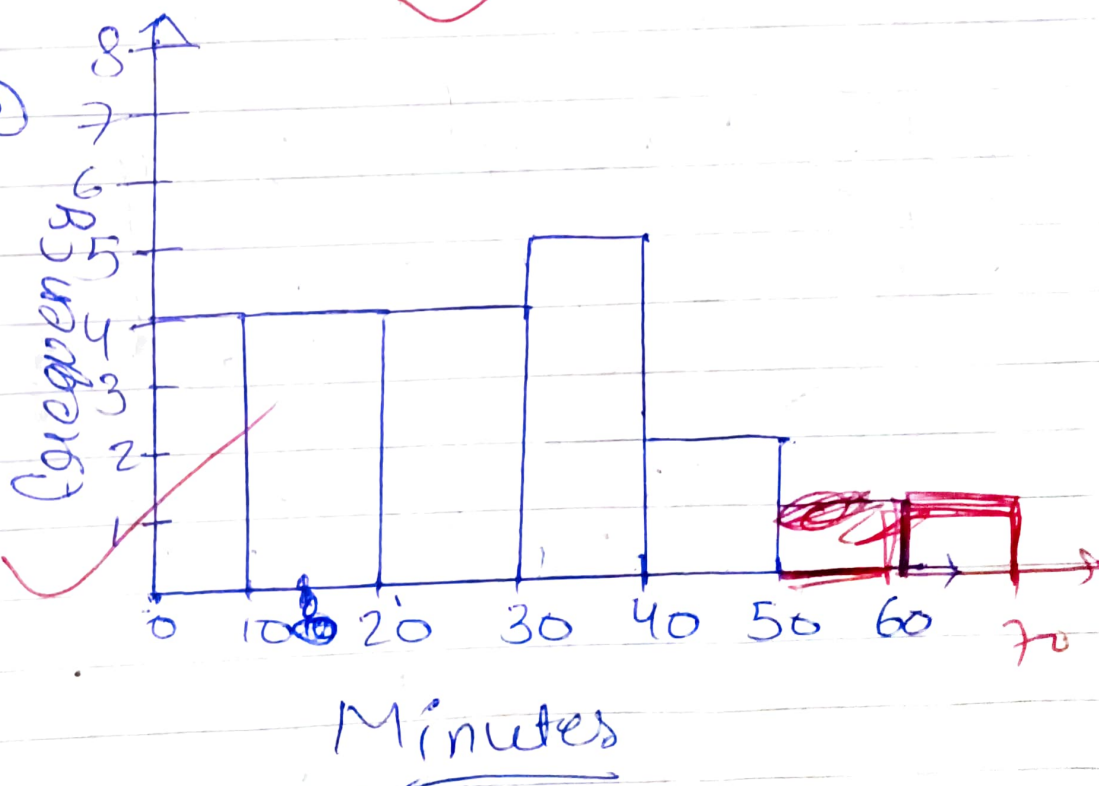
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(5)

Date \_\_\_\_\_  
Page \_\_\_\_\_

Minutes	Tallymark	Frequency
0-10		4
10-20		4
20-30		4
30-40		5
40-50		2
50-60	0	0
60-70		1
Total		20



$2 + 2\frac{1}{2}$

(6)

Date  
Page

Ques 7 solve (7) A can do a work = 15 days  
A 1 day work =  $\frac{1}{15}$  day

B can do a work = 10 days  
B 1 day work =  $\frac{1}{10}$  day

$$A+B \text{ one day work} = \frac{1}{15} + \frac{1}{10}$$
$$\frac{2+3}{30}$$
$$= \frac{5}{30} = \frac{1}{6}$$

(2) B work = 5 days

$$= 5 \times \frac{1}{10} = \frac{1}{2}$$

$$\Rightarrow \frac{1}{2} \div \frac{1}{15} = \frac{15}{2}$$

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

A can do work = ~~15~~ days  
7.5

Q 858 A can do a work = 15 =  $\frac{1}{15}$  day

B can do a work = 20 day =  $\frac{1}{20}$  day

Both together = 4 day =  $\frac{1}{4}$

~~$\frac{1}{15} + \frac{1}{20}$~~

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

1 work  $\Rightarrow \frac{1}{4} = \frac{7}{60}$

1m = 100  $\Rightarrow \frac{4 \times 60^{15}}{4} = \frac{15}{7}$

Work left =  ~~$1 - \frac{7}{15} = \frac{15}{7}$~~



8

Ques 9 Solve 9a. ~~3600~~ Students

(b)  $\frac{1050}{2700} = 5:6$

$5\frac{1}{2}$

(c) 450 students

Q. 858 A can do a work = 15 days

B can do a work = 20 days

Both work = 4 days

~~A can do a work = 1~~

A one day work =  $\frac{1}{15}$  day

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

$1\frac{1}{2}$

Both work =  $\frac{1}{4}$  day

Both 1 day work =  $\frac{1}{15} + \frac{1}{20}$

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

$\Rightarrow \frac{1}{4} \times \frac{7}{60}$  1 day work =  $\frac{28}{60}$

$\frac{1}{4} \times 60 = 15$

15 work left

left work =  $1 - \frac{28}{60} = \frac{32}{60} = \frac{8}{15}$  day



Q. 105-12 · 14e can build = 1 day 24 hours  
Started =

Let original =  $x$   
 $= \frac{1}{4}x$

✓  
2

$$\frac{1}{4}x \times 10 = 44$$

$$x = \frac{44 \times 4}{10}$$

$$x = \frac{28}{5}$$

$x = 17$  hours 6 min  
work left

~~24~~  
~~44~~