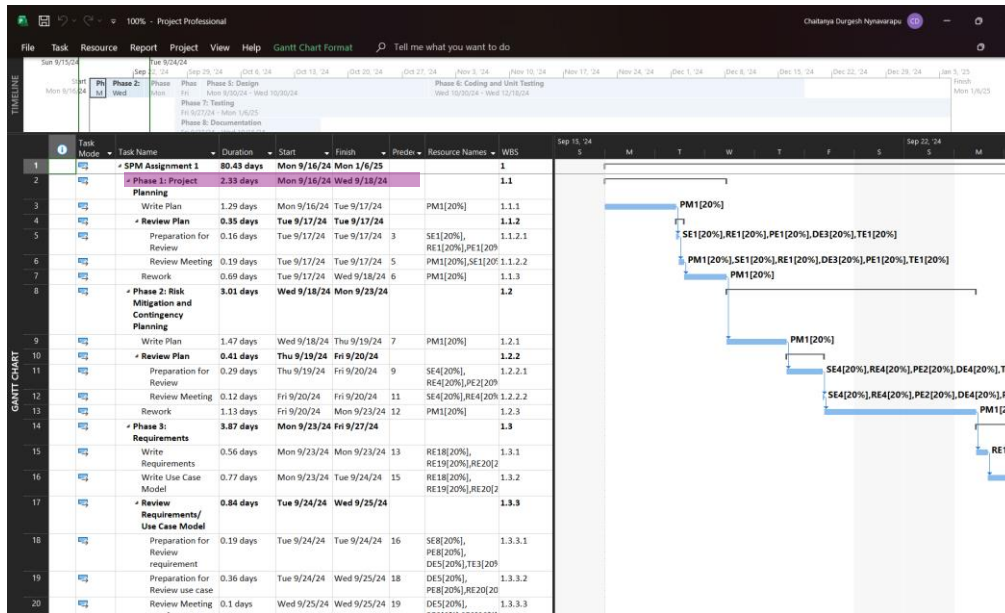


# ASSIGNMENT 1

Chaitanya Durgesh Nynavarapu  
A20561894

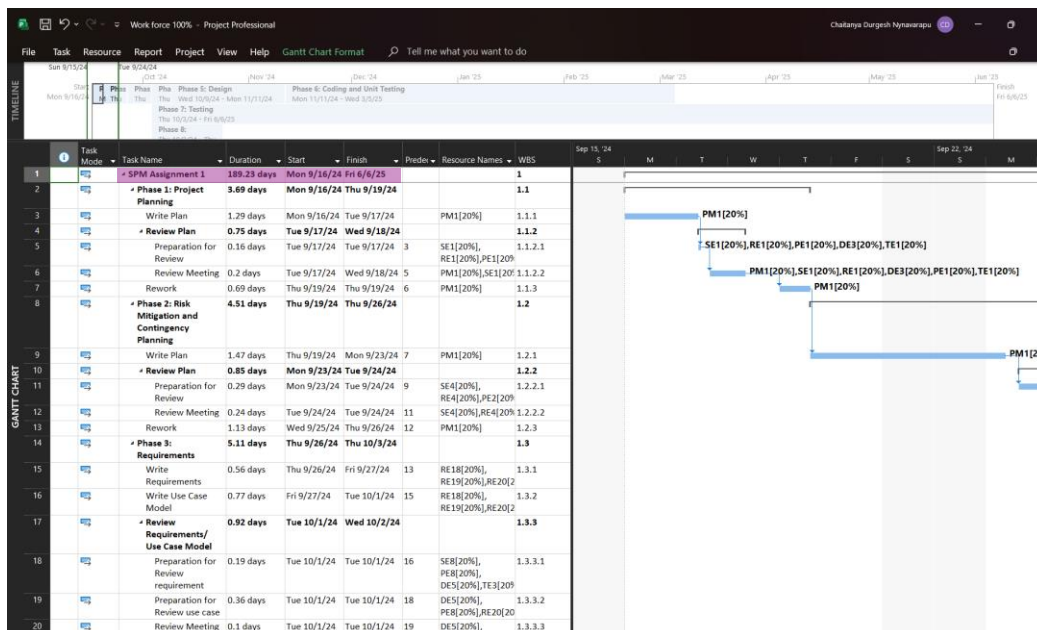
4. What is the earliest finish date for this project if it is scheduled to start on 9/16/24?

❖ 1/6/25 -- 80.43 days



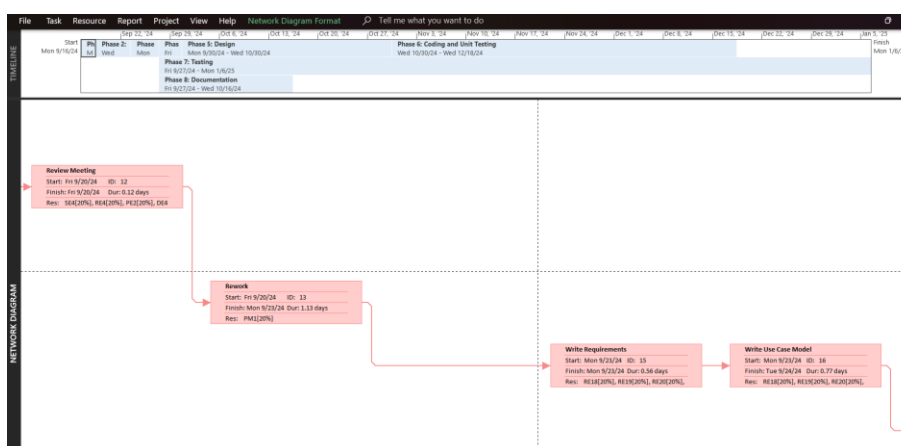
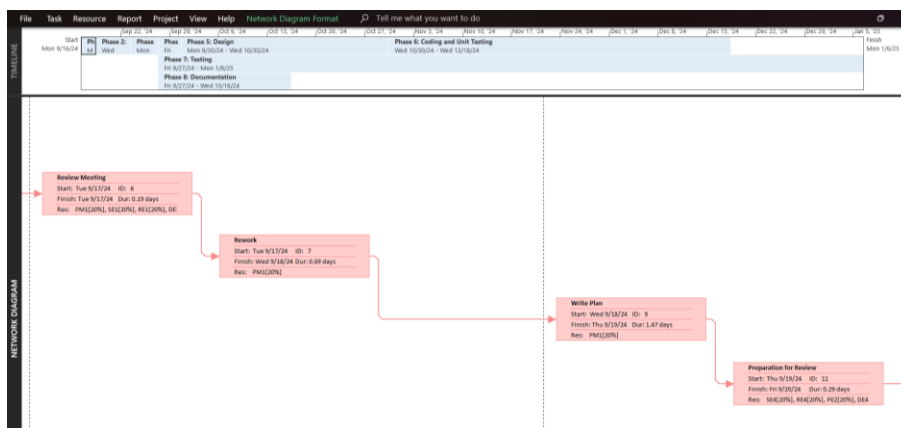
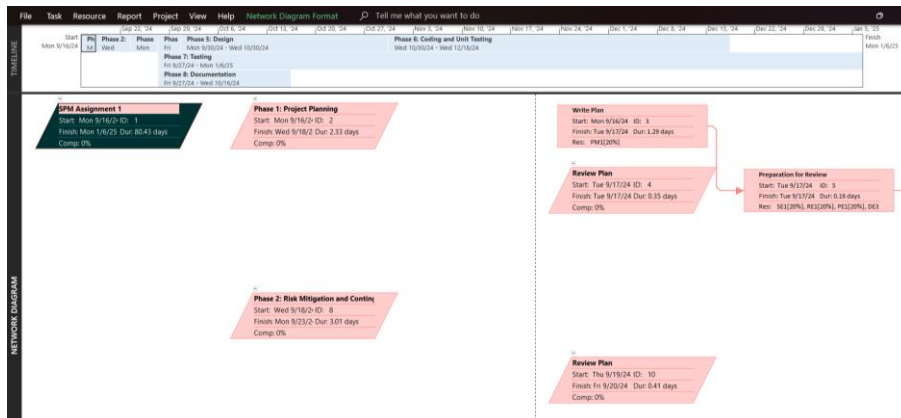
5. If you are not allowed to use more than 20% of the resources available at any point of time for this project, what is the earliest finish date for this project if it is scheduled to start on 9/16/24?

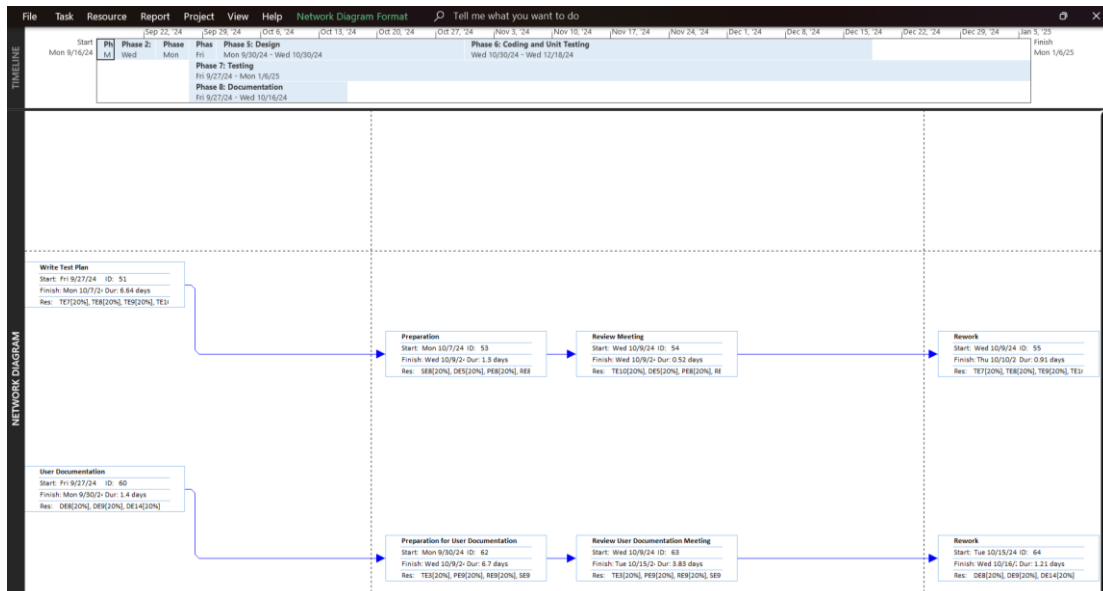
❖ 6/6/25 -- 189.23 days

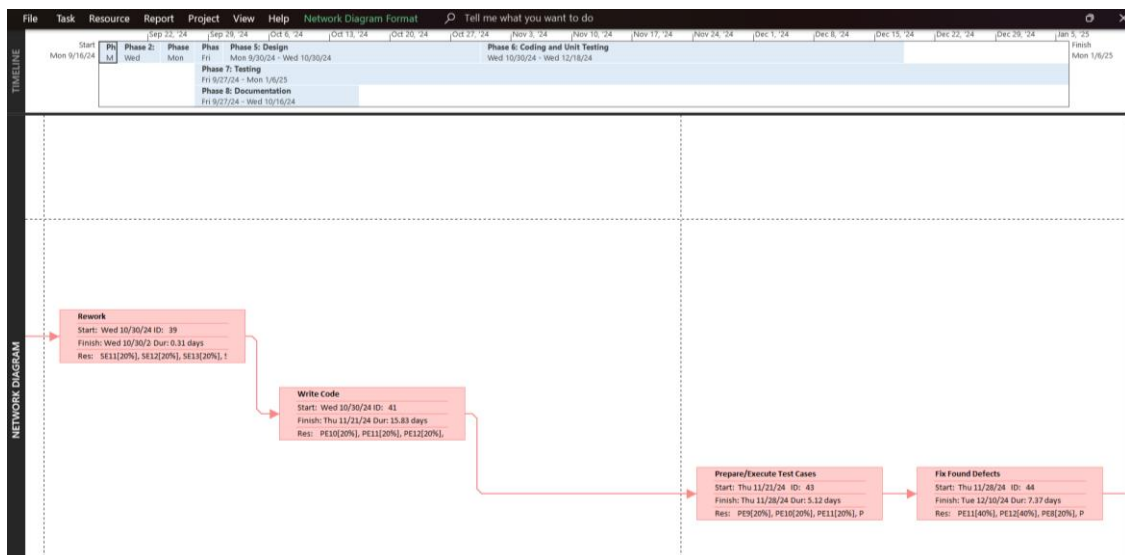
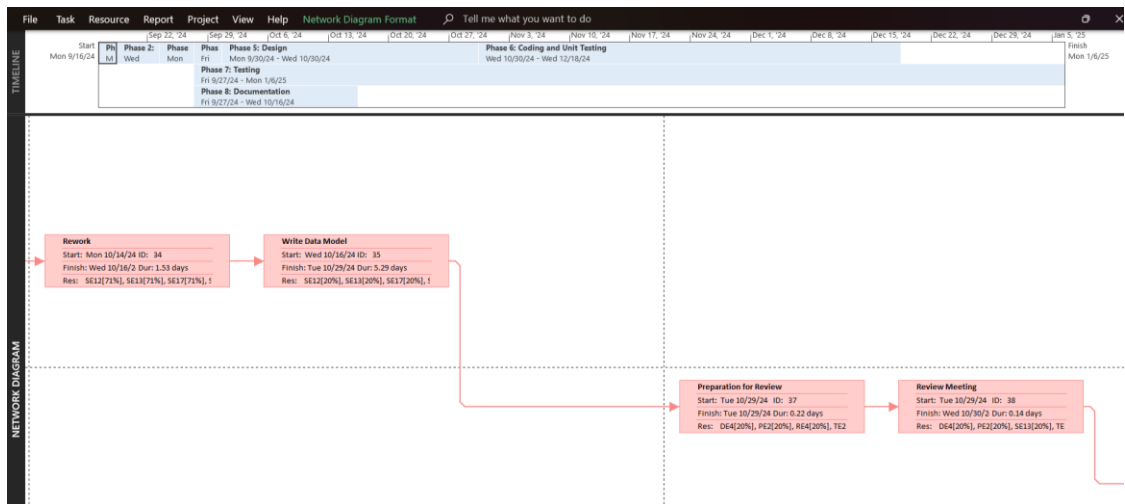
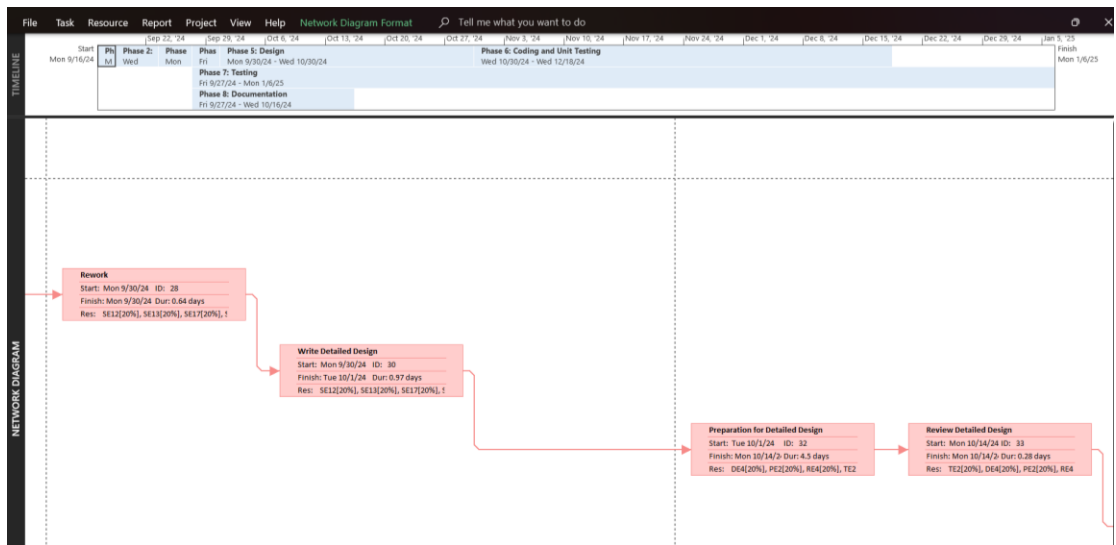


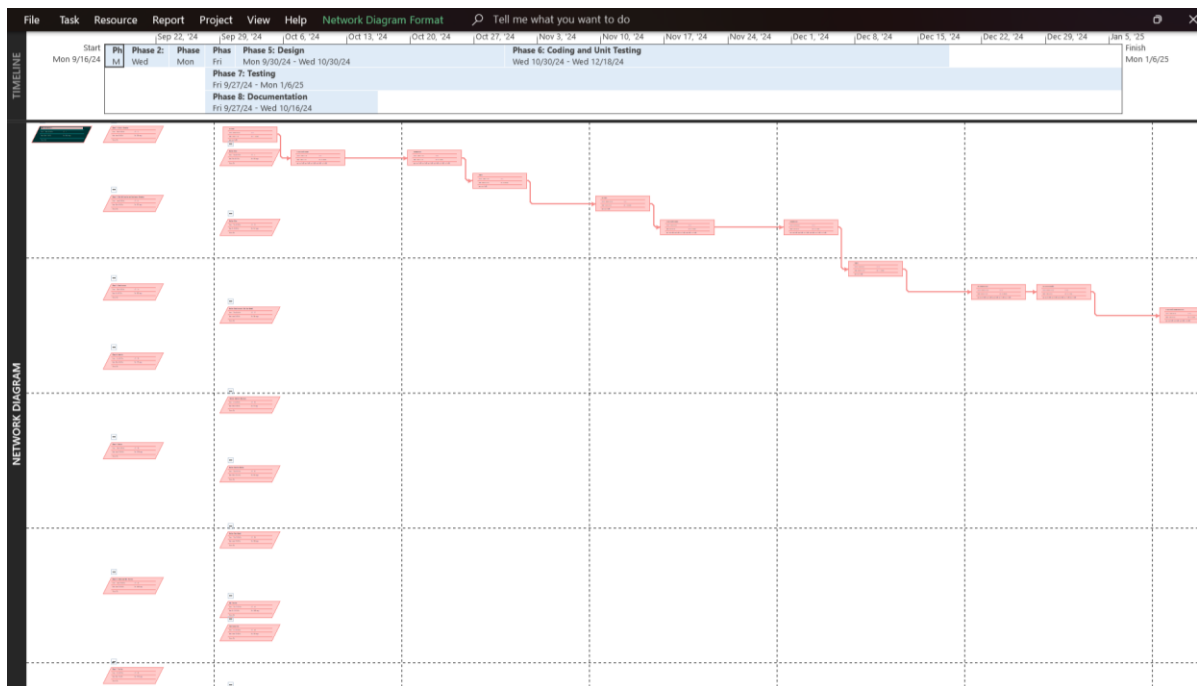
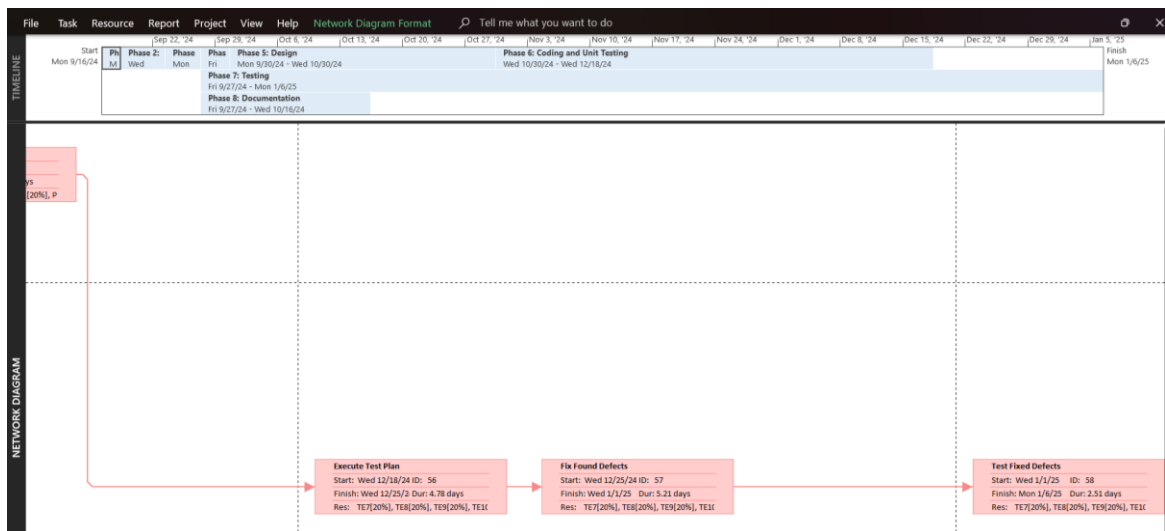
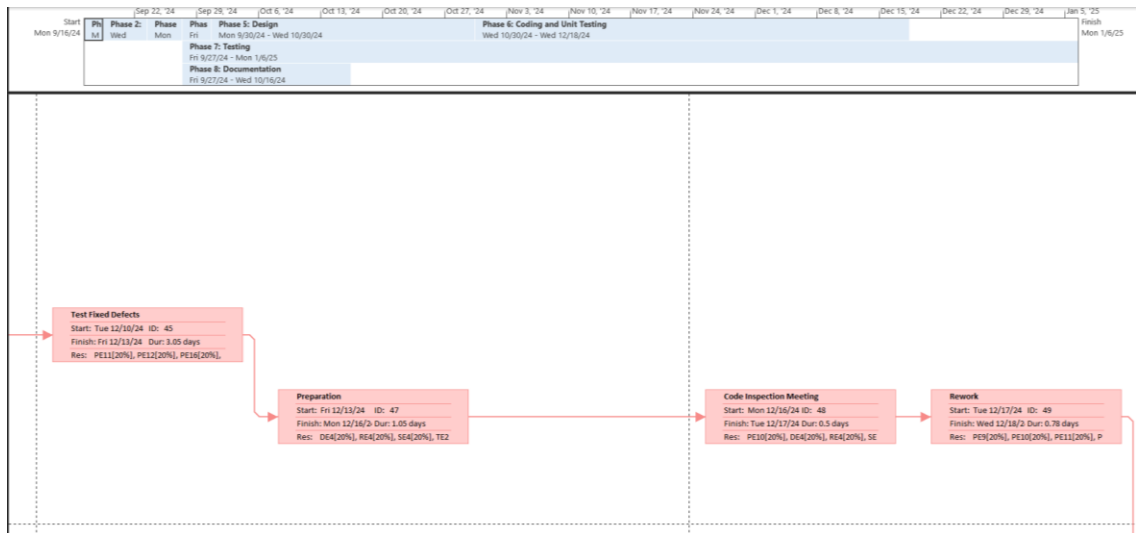
Microsoft Project schedules each task according to the formula:

- $\text{Effort} = (\text{Amount of work} / \text{Productivity Rate} * 8)$ 
  - Because a person can only work 8 hours per day
- $\text{Duration} = \text{Effort} / \text{No. of resources}$









## → Project Plan

write Plan -  $34/3 = \frac{10.33}{8} = \frac{1.291}{1} = \boxed{1.291}$

preparation -  $\frac{31}{5} = \frac{6.2}{8} = \frac{0.775}{5} = \boxed{0.155}$

review -  $\frac{31}{5} = \frac{6.2}{8} = \frac{0.775}{6} = \boxed{0.0191}$

rework -  $\frac{22}{4} = \frac{5.5}{8} = \frac{0.687}{1} = \boxed{0.687}$

## → Risk Mitigation & Contingency Plan

write plan -  $47/4 = \frac{11.75}{8} = \frac{1.468}{1} = \boxed{1.468}$

preparation -  $47/4 = \frac{11.75}{8} = \frac{11.75}{8} = \frac{1.468}{5} = \boxed{0.293}$

review -  $47/8 = \frac{5.87}{8} = \frac{0.733}{6} = \boxed{0.122}$

rework -  $45/5 = \frac{9}{8} = \frac{1.125}{1} = \boxed{1.125}$

## → Requirement

write req. -  $112/5 = \frac{22.4}{8} = \frac{2.8}{5} = \boxed{0.56}$

write use case -  $46/1.5 = \frac{30.666}{8} = \frac{3.832}{5} = \boxed{0.766}$

preparation -  $112/18 = \frac{6.222}{8} = \frac{0.777}{4} = \boxed{0.194}$

use case -  $46/4 = \frac{11.5}{8} = \frac{1.43}{4} = \boxed{0.357}$

review -  $112/28 = \frac{4}{5} = 0.1$

use case -  $46/6 = \frac{7.66}{8} = \frac{0.957}{5} = \boxed{0.191}$

rework -  $\frac{136}{10} = \frac{13.6}{8} = \frac{1.7}{1} = \boxed{1.7}$

## → Analysis

write analysis doc -  $\frac{66}{5} = \frac{13.2}{8} = \frac{1.65}{4} = \boxed{0.412}$

preparation -  $66/4 = \frac{16.5}{8} = \frac{2.062}{4} = \boxed{0.515}$

review -  $66/4 = \frac{7.33}{8} = \frac{0.916}{5} = \boxed{0.183}$

rework -  $123/6 = \frac{20.5}{8} = \frac{2.562}{4} = \boxed{0.640}$



## → Design

write DD

$$- 89/5 = \frac{17.8}{8} = \frac{2.225}{5} = \boxed{0.445}$$

preparation

$$- 89/4 = \frac{22.25}{8} = \frac{2.781}{4} = \boxed{0.695}$$

review

$$- 89/8 = \frac{11.125}{8} = \frac{1.390}{5} = \boxed{0.278}$$

rework

$$- 188/5 = \frac{37.6}{8} = \frac{4.7}{5} = \boxed{0.94}$$

write DM

$$- 28/0.25 = \frac{112}{8} = \frac{14}{6} = \boxed{2.333}$$

preparation DM

$$- 28/4 = \frac{7}{8} = \frac{0.875}{4} = \boxed{0.218}$$

review

$$- 28/5 = \frac{5.6}{8} = \frac{0.7}{5} = \boxed{0.14}$$

rework

$$- 88/6 = \frac{14.666}{8} = \frac{1.833}{6} = \boxed{0.305}$$

## → Coding + Unit Testing

write code

$$- \frac{3800}{100 \times 5} = \frac{28.95}{8} = \boxed{15.833}$$

prepare/executable

$$- \frac{256}{10} = \frac{25.6}{5} = \boxed{5.12}$$

fix found defects

$$- \frac{179}{8} = \frac{22.375}{5} = \boxed{4.475}$$

test fixed defects

$$- \frac{179}{12} = \frac{14.916}{5} = \boxed{2.983}$$

code inspection

preparation for CI

$$- \frac{3800}{113} = \frac{33.628}{8} = \frac{4.203}{4} = \boxed{1.050}$$

CI meeting

$$- \frac{3800}{189} = \frac{20.105}{8} = \frac{2.513}{5} = \boxed{0.502}$$

rework

$$- \frac{188}{5} = \frac{37.6}{8} = \frac{4.7}{6} = \boxed{0.783}$$

## → Testing

write TP

$$- 166/5 = \frac{33.2}{5} = \boxed{6.64}$$

prep for TP

$$- 166/4 = \frac{41.5}{8} = \frac{5.187}{4} = \boxed{1.296}$$

review TP

$$- 166/8 = \frac{20.75}{8} = \frac{2.593}{5} = \boxed{0.518}$$

rework

$$- 255/7 = \frac{36.428}{8} = \frac{4.553}{5} = \boxed{0.910}$$

exe. TP

$$- 215/9 = \frac{23.888}{5} = \frac{4.777}{5} = \boxed{0.955}$$

fix found defects

$$- 213/14 = \frac{15.214}{5} = \boxed{3.042}$$

test fixed defects

$$- 213/17 = \frac{12.529}{5} = \boxed{2.505}$$

## → Documentation

User documentation

$$- 134/4 = \frac{33.5}{8} \rightarrow \frac{4.187}{3} = \boxed{1.395}$$

prep for UD review

$$- 134/5 = \frac{26.8}{4} = \boxed{6.7}$$

review UD meeting

$$- 134/7 = \frac{19.142}{5} = \boxed{3.828}$$

rework

$$- 174/6 = \frac{29}{8} = \frac{3.625}{3} = \boxed{1.208}$$