

✓ **Congratulations! You passed!**  
TO PASS 80% or higher

Keep Learning

GRADE  
100%

⚠ Your computer's timezone does not seem to match your Coursera account's timezone setting of *America/Los\_Angeles*.  
[Change your Coursera timezone setting](#)

## Release Planning and Tracking

TOTAL POINTS 10

1. Calculate the **velocity range** a team should use to select work for next iteration based on their past velocities (see chart below). The team uses the last 5 iterations to estimate their velocity. **Use format "from-to" to specify the answer (e.g., 0-100).**

2 / 2 points

Table 1: The velocity of previous iterations

Iteration	Story points completed
1	14
2	18
3	23
4	17
5	15
6	21
7	22
8	20

15-22

✓ **Correct**

Since there are no anomalies, the velocity range is the minimum velocity to the maximum velocity of the last 5 iterations (iterations 4 to 8).

[Change your Coursera timezone setting](#)

2. A team was doing release planning and they decided that the next release will include all stories from **Story 1 to Story 11** (see table 2 below).

4 / 4 points

- The **velocity** range to be used for the release planning is **15-22**.
- The team works in a **2 week iteration**.
- It costs about **\$50,000 per iteration** to fund the entire team.

Calculate the estimated duration for next release. Additionally, how much will this release cost?

Table 2: Prioritized Product Backlog

Story Title	Estimate (in ideal days)
Story 1	5
Story 2	5
Story 3	8
Story 4	3
Story 5	5
Story 6	5
Story 7	3
Story 8	5
Story 9	8
Story 10	8
Story 11	3
Story 12	3
Story 13	3
Story 14	5
Story 15	8
Story 16	3
Story 17	5
Story 18	5
Story 19	8
Story 20	8

[Change your Coursera timezone setting](#)

- ☒ Duration: 6-8 weeks, Cost: 150K to 200K
- ☐ Duration: 3-4 weeks, Cost: 150K to 200K
- ☐ Duration: 10-14 weeks, Cost: 500K to 700K
- ☐ Duration: 6-8 weeks, Cost: 300K to 400K

✓ **Correct**

Total estimate of stories from S1 to S11 = 58

With velocity 15, it will take  $58 / 15 \Rightarrow 4$  iterations  $\Rightarrow$  8 weeks

With velocity 22, it will take  $58/22 \Rightarrow 3$  iterations  $\Rightarrow$  6 weeks

So duration is 6-8 weeks

Since it costs \$50K per iteration, it will cost between:

$\$50K * 3$  iterations = \$150K and  $\$50K * 4$  iterations = \$200K

3. Which of the following is the correct approach to measure sprint data on team velocity?

2 / 2 points

- ☒ To forecast velocity for first iteration.
- 1) the team builds deeper understanding of few stories from the backlog
  - 2) From the understood stories, they select stories they feel they can get done in one sprint.
  - 3) The sum the estimates of the selected stories is the team's forecasted velocity.

✓ Correct

Correct. This is a decent strategy for forecasting velocity.

- ☐ A new team member is going to join the team in the next iteration, so the team adjusted their velocity appropriately and selected more work to do in the iteration
- ☐ The team is getting more defects / support work so they are not able to finish the stories selected for the current sprint. The team estimated that it takes 30% of team capacity to handle support work. The team decided to reduce velocity by 30% and use it for future iteration.
- ☒ One of the team members is taking a couple days off in next iteration, but the team didn't adjust its velocity to reflect that.

✓ Correct

Correct. Since we don't know the exact impact of a team member taking some time off and there will always be somebody taking a couple days off, let the velocity take care of it.

4. Which of the following methods can help you track a release? (select any 2)

2 / 2 points

- ☒ A cumulative flow diagram for a release

✓ Correct

True. A cumulative flow diagram (if it only includes stories for the release) shows the progress (completed stories) against the total amount of work, so it can help track a release. In addition, it can help you understand story lead and cycle times.

- ☒ A release burn-up chart

✓ Correct

True. A release burn-up chart shows the progress (work done) against the total amount of work in a release.

- ☐ An iteration burn-down chart
- ☐ A weekly status report

[Change your Coursera timezone setting](#)

[Change your Coursera timezone setting](#)