

Time on the Trail

Developed by: Jen Reiter, 2014 Iditarod Teacher on the Trail™ **Created 9/15 UPDATED 12/17**

Discipline / Subject: Math

Topic: Military and Civilian Time

Grade Level: 3-5; others with modification

Resources / References / Materials Teacher Needs:

Checker Sheet Photo: http://skytrekkingalaska.com/sky-trekking-alaskas-itarod-2012-galena-kaltag-unalakleet/dsc_0668

2017 Finishing Times: <https://iditarod.com/race/2017/checkpoints/19-Nome/>

How to Tell Military Time Video: <https://www.youtube.com/watch?v=-Rf1qtdk5ag>

Military Time Conversion Chart: <http://militarytimechart.com/>

Lesson Summary:

The students will convert 2015 Iditarod finishing times from military time to civilian time.

Standards Addressed: (Local, State, or National)

CCSS.MATH.CONTENT.3.MD.A.1

Tell and write time to the nearest minute and measure time intervals in minutes. Solve word problems involving addition and subtraction of time intervals in minutes, e.g., by representing the problem on a number line diagram.

Learning Objectives:

TLW convert time from military time to standard time.

Assessment:

The students' worksheets can be assessed.

Procedural Activities:

Display for the students the photo found at: http://skytrekkingalaska.com/sky-trekking-alaskas-itarod-2012-galena-kaltag-unalakleet/dsc_0668 You may want to print copies for the students so they can investigate it like a primary source.

1. Explain that this is data from the Iditarod that was taken at the checkpoint of Kaltag in 2012. With a partner, have them make some See, Think, Wonder observations about what they see within the data.
2. Draw the students' attention to the in times of the leaders. Have they ever heard of 14 o'clock? What is the meaning behind that time?
3. Share with the student the video about Military Time.
4. Discuss what the advantages would be for reporting race data in military time: no need to record am or pm, less likelihood for mistakes to be made by tired volunteers, etc.
5. Review with the students about adding or subtracting 12 to make the conversions. Practice several times using the data found in the photo:
Aliy Zirkle – 11:15
John Baker – 14:32
Mitch Seavey – 14:33
Aaron Burmeister – 14:56
Dallas Seavey – 15:19
Jeff King – 16:00
6. As a classwork assignment, have the students complete the included worksheet that has them convert the finishing times of the 2017 top twelve finishers.
7. As a follow up, or the following day, have each student keep a sticky note on his or her desk. Periodically during the day, ring a bell. When they hear the bell, the students need to stop what they are doing and record the time in both civilian and military time. Check their work at the end of the day.

Materials Students Need:

Worksheet, attached

Technology Utilized to Enhance Learning:**Other Information:**

This is a fine time to introduce additional clocks into you classroom. In addition to our regular clock, I have an analog clock that is set to the time in Alaska, and a digit clock that is set to military time.

Modifications for Special Learners/ Enrichment Opportunities:

Students could work with a partner.

If more practice is needed, the students could convert additional finisher times. The complete list of finisher times can be found at: <https://iditarod.com/race/2017/checkpoints/19-Nome/>

Time on the Trail

Converting Military to Standard Time

Checkpoint times along the trail are reported in military time instead of standard time.

Think about:

- What would the advantage be to using military vs. standard time in reporting checkpoint times?
- How do we convert those times to standard times for ourselves?

The chart below shows the times the first twelve mushers checked into the final checkpoint in Nome, Alaska during the 2017 Iditarod. Convert the times into standard time. Don't forget to include am or pm when labeling your final answer!

Arrivals into Nome

Musher:	Day:	Time Checked In:	Standard Time:
Mitch Seavey	3/14	15:40:13	
Dallas Seavey	3/14	18:24:31	
Nicolas Petit	3/14	18:29:13	
Joar Leifseth Ulsom	3/14	23:00:40	
Jessie Royer	3/15	01:08:54	
Wade Marris	3/15	06:43:40	
Ray Redington, Jr.	3/15	09:13:04	
Aliy Zirkle	3/15	10:49:42	
Peter Kaiser	3/15	11:05:38	
Paul Gebhardt	3/15	12:00:06	
Jeff King	3/15	12:49:42	
Ramey Smyth	3/15	13:47:08	