

Luna's Space Adventure

Grade 4 · Time zones · AK.4.MD.4

Name _____

Date _____



Astronaut Luna is exploring a far-off corner of space. Solve each problem to help Luna's mission go smoothly!

Read the time zones

Going east the clock is later; going west it is earlier.

Time zone	City	Time
Hawaii	Honolulu	12:00 noon
Alaska	Anchorage	1:00 p.m.
Pacific	Seattle	2:00 p.m.
Mountain	Denver	3:00 p.m.
Central	Chicago	4:00 p.m.
Eastern	New York	5:00 p.m.

How many hours later is it in New York than in Honolulu? _____

How many hours apart are New York and Seattle? _____

When it is 12:00 noon in Honolulu (standard time)

What time is it there?

Count the hours between the zones.

It is 1:00 p.m. in Chicago. What time is it in Seattle? _____

It is 5:00 p.m. in Chicago. What time is it in Seattle? _____

It is 10:00 a.m. in New York. What time is it in Seattle? _____

It is 3:00 p.m. in Chicago. What time is it in Denver? _____

Flights across zones

Add the flight time, then change to the time zone where it lands.

A plane leaves Seattle at 11:00 a.m., and the flight takes 4 hours. What time is it in New York when it lands? _____

A plane leaves Chicago at 8:00 a.m., and the flight takes 5 hours. What time is it in Denver when it lands? _____

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ANSWER KEY



Astronaut Luna is exploring a far-off corner of space. Solve each problem to help Luna's mission go smoothly!

Read the time zones Going east the clock is later; going west it is earlier.

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Eastern	New York	5:00 p.m.

How many hours later is it in New York than in Honolulu?

5

How many hours apart are New York and Seattle?

3

When it is 12:00 noon in Honolulu (standard time)

What time is it there? Count the hours between the zones.

It is 1:00 p.m. in Chicago. What time is it in Seattle?

11:00 a.m.

It is 5:00 p.m. in Chicago. What time is it in Seattle?

3:00 p.m.

It is 10:00 a.m. in New York. What time is it in Seattle?

7:00 a.m.

It is 3:00 p.m. in Chicago. What time is it in Denver?

2:00 p.m.

Flights across zones Add the flight time, then change to the time zone where it lands.

A plane leaves Seattle at 11:00 a.m., and the flight takes 4 hours. What time is it in New York when it lands?

6:00 p.m.

A plane leaves Chicago at 8:00 a.m., and the flight takes 5 hours. What time is it in Denver when it lands?

12:00 noon



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GUIDE

1 What this sheet practises

Reading a table of U.S. time zones, finding the time in another zone, and working out when a flight lands in another zone.

2 A problem from the sheet, worked out

What time is it there? Count the hours between the zones.

It is 1:00 p.m. in Chicago. What time is it in Seattle?

11:00 a.m.

It is 5:00 p.m. in Chicago. What time is it in Seattle?

3:00 p.m.

It is 10:00 a.m. in New York. What time is it in Seattle?

7:00 a.m.

It is 3:00 p.m. in Chicago. What time is it in Denver?

2:00 p.m.

How: Find how many hours apart the two zones are. Going east, add the hours; going west, subtract them. For a flight, add the flight time first, then change zones.

3 Words to know

time zone a region where clocks show the same time

standard time clock time without daylight saving

a.m. and p.m. before noon and after noon

elapsed time how much time passes

4 Watch for

- Adding hours going west instead of subtracting.
- Forgetting to switch a.m. to p.m. when passing noon.
- Changing zones but forgetting to add the flight time.

5 Where it fits

BEFORE

4.MD.A.2

Solve story problems about distance, time, volume, mass and money.

THIS SHEET

4.MD.4

Solve elapsed-time problems across U.S. time zones, including Alaska time.

NEXT

5.MD.A.1

Convert between units in the same measurement system.

6 Helping at home

Call or message a relative in another time zone and work out together what time it is there first.

