

Luna's Space Adventure

Name _____

Grade 4 • Elapsed time across noon • 4.MG.2

Date _____



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

a.m. or p.m.? a.m. is midnight to noon; p.m. is noon to midnight.

Eat breakfast at 7:30 **a.m.** **p.m.** Wake up at 6:50 **a.m.** **p.m.**

Start school at 8:10 **a.m.** **p.m.** Play at the park at 4:30 **a.m.** **p.m.**

How long? Count up to noon, then on to the end time.

10:25 a.m. to 3:50 p.m. _____ 10:45 a.m. to 2:50 p.m. _____

8:30 a.m. to 1:25 p.m. _____ 8:55 a.m. to 3:35 p.m. _____

11:10 a.m. to 2:30 p.m. _____ 10:40 a.m. to 2:55 p.m. _____

8:30 a.m. to 4:05 p.m. _____ 8:30 a.m. to 2:25 p.m. _____

When does it end? Add the hours, then the minutes. Watch for noon.

9:25 a.m. + 7 h 5 min _____ 9:05 a.m. + 4 h 40 min _____

10:20 a.m. + 2 h 45 min _____ 11:20 a.m. + 1 h 55 min _____

11:45 a.m. + 4 h 55 min _____ 11:25 a.m. + 1 h 55 min _____

When did it start? Count back from the end time.

1 h 31 min before 12:46 p.m. _____ 7 h 31 min before 3:16 p.m. _____

5 h 33 min before 1:01 p.m. _____ 6 h 29 min before 3:13 p.m. _____

Story time

- ① How many minutes long is a movie that starts at 11:45 a.m. and ends at 1:30 p.m.?

.....

_____ minutes

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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!

a.m. or p.m.? a.m. is midnight to noon; p.m. is noon to midnight.

Eat breakfast at 7:30

a.m.

p.m.

Wake up at 6:50

a.m.

p.m.

Start school at 8:10

a.m.

p.m.

Play at the park at 4:30

a.m.

p.m.

How long? Count up to noon, then on to the end time.

10:25 a.m. to 3:50 p.m.

5 h 25 min

10:45 a.m. to 2:50 p.m.

4 h 5 min

8:30 a.m. to 1:25 p.m.

4 h 55 min

8:55 a.m. to 3:35 p.m.

6 h 40 min

11:10 a.m. to 2:30 p.m.

3 h 20 min

10:40 a.m. to 2:55 p.m.

4 h 15 min

8:30 a.m. to 4:05 p.m.

7 h 35 min

8:30 a.m. to 2:25 p.m.

5 h 55 min

When does it end? Add the hours, then the minutes. Watch for noon.

9:25 a.m. + 7 h 5 min

4:30 p.m.

9:05 a.m. + 4 h 40 min

1:45 p.m.

10:20 a.m. + 2 h 45 min

1:05 p.m.

11:20 a.m. + 1 h 55 min

1:15 p.m.

11:45 a.m. + 4 h 55 min

4:40 p.m.

11:25 a.m. + 1 h 55 min

1:20 p.m.

When did it start? Count back from the end time.

1 h 31 min before 12:46 p.m.

11:15 a.m.

7 h 31 min before 3:16 p.m.

7:45 a.m.

5 h 33 min before 1:01 p.m.

7:28 a.m.

6 h 29 min before 3:13 p.m.

8:44 a.m.

Story time

- ① How many minutes long is a movie that starts at 11:45 a.m. and ends at 1:30 p.m.?

$15 + 60 + 30 = 105$

105 minutes



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GUIDE

1 What this sheet practises

Working out elapsed time in hours and minutes when it crosses noon: how long, when something ends, and when it started.

2 A problem from the sheet, worked out

How long? Count up to noon, then on to the end time.

10:25 a.m. to 3:50 p.m.	<u>5 h 25 min</u>	10:45 a.m. to 2:50 p.m.	<u>4 h 5 min</u>
8:30 a.m. to 1:25 p.m.	<u>4 h 55 min</u>	8:55 a.m. to 3:35 p.m.	<u>6 h 40 min</u>
11:10 a.m. to 2:30 p.m.	<u>3 h 20 min</u>	10:40 a.m. to 2:55 p.m.	<u>4 h 15 min</u>
8:30 a.m. to 4:05 p.m.	<u>7 h 35 min</u>	8:30 a.m. to 2:25 p.m.	<u>5 h 55 min</u>

How: Count up in jumps: to the next hour, on to noon, then to the end time. Add the jumps. Noon is where a.m. turns to p.m.

3 Words to know

elapsed time how much time passes

a.m. from midnight to noon

p.m. from noon to midnight

noon 12:00 in the middle of the day

4 Watch for

- Subtracting 1:15 – 9:40 as if the clock went past 12 to 13.
- Treating 60 minutes as 100 when regrouping.
- Writing 12:30 a.m. for half past noon.

5 Where it fits

BEFORE

3.MD.A.1

Tell time to the minute and solve elapsed-time problems.

THIS SHEET

4.MG.2

Solve elapsed-time problems in hours and minutes, including across a.m. and p.m.

NEXT

5.MD.A.1

Convert between units in the same measurement system.

6 Helping at home

Note when a car trip or movie starts and ends, crossing noon. Work out together how long it lasted.

