

Luna's Space Adventure

Grade 4 · Measurement story problems · 4.MD.A.2

Name _____

Date _____



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

Story problems Watch the units.

- ① Luna's practice lasted 2 hr 8 min. Zed's lasted 45 min. How many minutes longer was Luna's?

.....

_____ min

- ② Orion buys 4 notebooks at \$2 each and pays with \$50. How much change does Orion get?

.....

_____ dollars

- ③ A jug holds 4 L. Orion pours out 730 mL. How many milliliters are left?

.....

_____ mL

- ④ Orion ran 4 km and then 33 more meters. How many meters did Orion run?

.....

_____ m

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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!

Story problems Watch the units.

- ① Luna's practice lasted 2 hr 8 min. Zed's lasted 45 min. How many minutes longer was Luna's?

$$2 \times 60 + 8 - 45 = 83$$

83 min

- ② Orion buys 4 notebooks at \$2 each and pays with \$50. How much change does Orion get?

$$50 - 4 \times 2 = 42$$

42 dollars

- ③ A jug holds 4 L. Orion pours out 730 mL. How many milliliters are left?

$$4 \times 1000 - 730 = 3270$$

3270 mL

- ④ Orion ran 4 km and then 33 more meters. How many meters did Orion run?

$$4 \times 1000 + 33 = 4033$$

4033 m

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GUIDE

① What this sheet practises

Story problems about distance, time, liquid, weight and money, often with more than one step or a unit to change.

② A problem from the sheet, worked out

Story problems Watch the units.

- ① Luna's practice lasted 2 hr 8 min. Zed's lasted 45 min. How many minutes longer was Luna's?

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83 min

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42 dollars

How: Find what the question asks for and which unit it wants. If the units don't match, change one first. Then add, subtract, multiply or divide, and write the unit with the answer.

③ Words to know

unit what it's measured in: ft, min, L, kg, \$

convert change to a different unit

elapsed time how much time passes

change money back after paying more than the price

④ Watch for

- Mixing units, like adding minutes to hours without changing one.
- Finding the total cost but forgetting to take it from what was paid.
- Leaving off the unit.

⑤ Where it fits

BEFORE

3.MD.A.2

Measure and estimate liquid volume and mass in liters, grams and kilograms.

THIS SHEET

4.MD.A.2

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

NEXT

5.MD.A.1

Convert between units in the same measurement system.

⑥ Helping at home

At the store, ask how much change you'd get from \$20. When cooking, ask what time dinner is ready if it goes in now for 45 minutes.