

Luna's Space Adventure

Name _____

Grade 3 · Two-step story problems · 3.OA.D.8

Date _____



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

Two steps Do one step at a time. Does your answer make sense?

- ① Nova buys 8 bags of moon rocks with 7 in each bag, then gives 3 moon rocks to Luna. How many moon rocks does Nova have left?

_____ moon rocks

- ② Luna buys 4 baskets of star stickers with 7 in each basket, then gives 9 star stickers to Max. How many star stickers does Luna have left?

_____ star stickers

- ③ Zed has 9 trays with 9 star stickers in each tray. How many star stickers does Zed have?

_____ star stickers

- ④ Max buys 7 trays of rocket bolts with 2 in each tray, then gives 2 rocket bolts to Luna. How many rocket bolts does Max have left?

_____ rocket bolts

Two steps in one Work left to right, but multiply and divide first.

$$7 \times 8 + 2 = \boxed{}$$

$$2 \times 3 + 4 = \boxed{}$$

$$6 \times 5 + 4 = \boxed{}$$

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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!

Two steps Do one step at a time. Does your answer make sense?

- ① Nova buys 8 bags of moon rocks with 7 in each bag, then gives 3 moon rocks to Luna. How many moon rocks does Nova have left?

$$8 \times 7 = 56, \text{ then } 56 - 3 = 53$$

53 moon rocks

- ② Luna buys 4 baskets of star stickers with 7 in each basket, then gives 9 star stickers to Max. How many star stickers does Luna have left?

$$4 \times 7 = 28, \text{ then } 28 - 9 = 19$$

19 star stickers

- ③ Zed has 9 trays with 9 star stickers in each tray. How many star stickers does Zed have?

$$9 \times 9 = 81$$

81 star stickers

- ④ Max buys 7 trays of rocket bolts with 2 in each tray, then gives 2 rocket bolts to Luna. How many rocket bolts does Max have left?

$$7 \times 2 = 14, \text{ then } 14 - 2 = 12$$

12 rocket bolts

Two steps in one Work left to right, but multiply and divide first.

$$7 \times 8 + 2 = \boxed{58}$$

$$2 \times 3 + 4 = \boxed{10}$$

$$6 \times 5 + 4 = \boxed{34}$$

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GUIDE

1 What this sheet practises

Story problems that take two steps, with any of +, −, × and ÷. Your child decides what to find first, writes each step, and checks that the answer makes sense.

2 A problem from the sheet, worked out

Two steps Do one step at a time. Does your answer make sense?

- 1 Nova buys 8 bags of moon rocks with 7 in each bag, then gives 3 moon rocks to Luna. How many moon rocks does Nova have left?

$$8 \times 7 = 56, \text{ then } 56 - 3 = 53$$

53 moon rocks

How: Find what the story needs first and write that step, then use its answer in the second step. An estimate tells you whether the answer makes sense.

3 Words to know

product the answer to ×

difference the answer to −

estimate a close guess

equation a number sentence with an equals sign

4 Watch for

- Stopping after the first step.
- Using the numbers in the order they appear, not the order the story needs.
- Adding equal groups ($8 + 4$) instead of multiplying (8×4).

5 Where it fits

BEFORE

2.OA.A.1

Solve one- and two-step adding and subtracting story problems within 100.

THIS SHEET

3.OA.D.8

Solve two-step story problems using all four operations.

NEXT

4.OA.A.3

Solve multi-step story problems, including ones with remainders.

6 Helping at home

Ask your child to tell the story back in their own words and say what they'll find first. A quick sketch often shows the first step.