

Luna's Space Adventure

Name _____

Grade 3 • Multiplication and division stories • 3.OA.A.3

Date _____



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

Story problems Write an equation for each, then solve.

- ① Nova has 5 trays with 3 moon rocks in each tray. How many moon rocks does Nova have?
.....

_____ moon rocks
- ② Max shares 24 space snacks equally among 8 bags. How many space snacks go in each bag?
.....

_____ space snacks
- ③ Zed lines up space snacks in 4 rows with 7 in each row. How many space snacks is that?
.....

_____ space snacks
- ④ Nova packs 32 space snacks into bags of 4. How many bags does Nova fill?
.....

_____ bags
- ⑤ Orion has 2 packs with 2 star stickers in each pack. How many star stickers does Orion have?
.....

_____ star stickers

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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 Write an equation for each, then solve.

- ① Nova has 5 trays with 3 moon rocks in each tray. How many moon rocks does Nova have?

$$5 \times 3 = 15$$

15 moon rocks

- ② Max shares 24 space snacks equally among 8 bags. How many space snacks go in each bag?

$$24 \div 8 = 3$$

3 space snacks

- ③ Zed lines up space snacks in 4 rows with 7 in each row. How many space snacks is that?

$$4 \times 7 = 28$$

28 space snacks

- ④ Nova packs 32 space snacks into bags of 4. How many bags does Nova fill?

$$32 \div 4 = 8$$

8 bags

- ⑤ Orion has 2 packs with 2 star stickers in each pack. How many star stickers does Orion have?

$$2 \times 2 = 4$$

4 star stickers

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GUIDE

① What this sheet practises

Story problems solved by multiplying or dividing. Your child decides which the story needs, writes an equation with a box for the unknown, and solves it.

② A problem from the sheet, worked out

Story problems Write an equation for each, then solve.

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$$5 \times 3 = 15$$

15 moon rocks

- ② Max shares 24 space snacks equally among 8 bags. How many space snacks go in each bag?

$$24 \div 8 = 3$$

3 space snacks

How: If the story puts equal groups together, multiply. If it splits a total into equal groups, divide. Write the equation, then solve it.

③ Words to know

equation a number sentence with an equals sign

unknown the number you're finding, shown by a box

multiply put equal groups together

divide split into equal groups

④ Watch for

- Multiplying every story, even when a total is being split.
- Leaving off the unit: the answer is 18 space snacks, not just 18.
- Writing a division in the wrong order ($3 \div 18$).

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.A.3

Solve multiplying and dividing story problems within 100.

NEXT

4.OA.A.2

Solve story problems that compare by multiplying or dividing.

⑥ Helping at home

Make up quick stories at dinner: 4 plates with 3 carrots each is how many carrots? Then flip it: 12 carrots shared on 4 plates?