

Luna's Space Adventure

Name _____

Grade 4 • Comparing with times • 4.OA.A.2

Date _____



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

Times as many stories Draw a bar model: one bar, then the same bar several times.

- ① Orion has 6 space snacks. Zed has 9 times as many as Orion. How many space snacks does Zed have?

.....

_____ space snacks

- ② Max has 36 moon rocks. That is 9 times as many as Zed has. How many moon rocks does Zed have?

.....

_____ moon rocks

- ③ Nova has 5 star stickers. Orion has 2 times as many as Nova. How many star stickers does Orion have?

.....

_____ star stickers

- ④ Max has 80 space snacks. That is 8 times as many as Nova has. How many space snacks does Nova have?

.....

_____ space snacks

- ⑤ Nova has 7 space snacks. Zed has 4 times as many as Nova. How many space snacks does Zed have?

.....

_____ space snacks

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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!

Times as many stories Draw a bar model: one bar, then the same bar several times.

- ① Orion has 6 space snacks. Zed has 9 times as many as Orion. How many space snacks does Zed have?

$$9 \times 6 = 54$$

54 space snacks

- ② Max has 36 moon rocks. That is 9 times as many as Zed has. How many moon rocks does Zed have?

$$36 \div 9 = 4$$

4 moon rocks

- ③ Nova has 5 star stickers. Orion has 2 times as many as Nova. How many star stickers does Orion have?

$$2 \times 5 = 10$$

10 star stickers

- ④ Max has 80 space snacks. That is 8 times as many as Nova has. How many space snacks does Nova have?

$$80 \div 8 = 10$$

10 space snacks

- ⑤ Nova has 7 space snacks. Zed has 4 times as many as Nova. How many space snacks does Zed have?

$$4 \times 7 = 28$$

28 space snacks

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GUIDE

① What this sheet practises

Story problems that compare two amounts with times: one has 3 times as many as the other. Your child decides whether to multiply or divide, then solves.

② A problem from the sheet, worked out

Times as many stories Draw a bar model: one bar, then the same bar several times.

- ① Orion has 6 space snacks. Zed has 9 times as many as Orion. How many space snacks does Zed have?

$$9 \times 6 = 54$$

54 space snacks

- ② Max has 36 moon rocks. That is 9 times as many as Zed has. How many moon rocks does Zed have?

$$36 \div 9 = 4$$

4 moon rocks

How: Draw one bar for the smaller amount and the same bar several times for the bigger. Know the smaller amount? Multiply. Know the bigger one? Divide it by the number of times.

③ Words to know

times as many copies of the smaller amount

bar model a drawing that shows amounts as bars

multiply find the bigger amount from the smaller

divide find the smaller amount from the bigger

④ Watch for

- Multiplying every story, even when the bigger amount is already given.
- Adding the numbers ($9 + 2$) instead of multiplying (2×9).
- Answering with the wrong person's amount.

⑤ Where it fits

BEFORE

3.OA.A.3

Solve multiplying and dividing story problems within 100.

THIS SHEET

4.OA.A.2

Solve story problems that compare by multiplying or dividing.

NEXT

5.NF.B.5

Understand multiplying as scaling something up or down.

⑥ Helping at home

Compare ages with times: if Grandpa is 70 and your child is 10, he is 7 times as old. Ask your child to check it with 7×10 .