

Luna's Space Adventure

Grade 3 • Equal groups • 3.OA.A.1

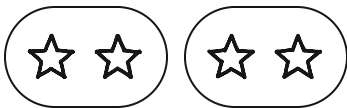
Name _____

Date _____

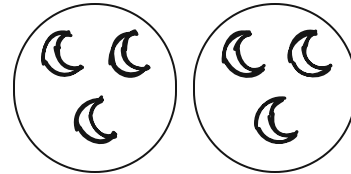


Astronaut Luna is exploring a far-off corner of space. Solve each problem to help Luna's mission go smoothly!

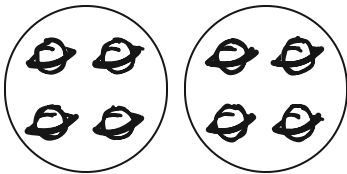
How many in all? Count the groups and how many in each. Then multiply.



$$2 \times 2 = \square$$



$$2 \times 3 = \square$$



$$2 \times 4 = \square$$

Groups of Write each as a multiplication, then solve.

$$7 \text{ groups of } 6 = \square \times \square = \square$$

$$6 \text{ groups of } 9 = \square \times \square = \square$$

$$9 \text{ groups of } 6 = \square \times \square = \square$$

$$2 \text{ groups of } 8 = \square \times \square = \square$$

$$8 \text{ groups of } 6 = \square \times \square = \square$$

$$7 \text{ groups of } 9 = \square \times \square = \square$$

Arrays Rows times how many in each row.



$$\square \times \square = \square$$



$$\square \times \square = \square$$



$$\square \times \square = \square$$



$$\square \times \square = \square$$

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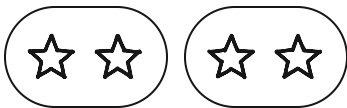
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ANSWER KEY

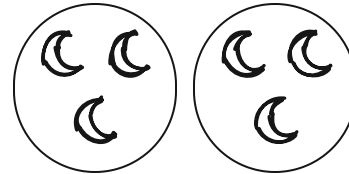


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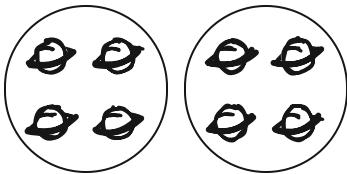
How many in all? Count the groups and how many in each. Then multiply.



$$2 \times 2 = 4$$



$$2 \times 3 = 6$$



$$2 \times 4 = 8$$

Groups of Write each as a multiplication, then solve.

$$7 \text{ groups of } 6 = 7 \times 6 = 42$$

$$6 \text{ groups of } 9 = 6 \times 9 = 54$$

$$9 \text{ groups of } 6 = 9 \times 6 = 54$$

$$2 \text{ groups of } 8 = 2 \times 8 = 16$$

$$8 \text{ groups of } 6 = 8 \times 6 = 48$$

$$7 \text{ groups of } 9 = 7 \times 9 = 63$$

Arrays Rows times how many in each row.



$$2 \times 4 = 8$$



$$4 \times 3 = 12$$



$$3 \times 5 = 15$$



$$3 \times 6 = 18$$

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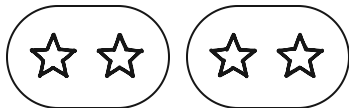
GUIDE

① What this sheet practises

Seeing multiplication as equal groups: 4 groups of 5 is 4×5 . Your child counts the groups and how many are in each, then writes and solves the multiplication.

② A problem from the sheet, worked out

How many in all? Count the groups and how many in each. Then multiply.



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

How: Count the groups, then how many are in each group. Multiply: the number of groups $\times$ the number in each.

③ Words to know

multiply put equal groups together

product the answer to a multiplication

factor a number being multiplied

equal groups groups with the same number in each

④ Watch for

- Adding the two numbers ($2 + 4$) instead of multiplying (2×4).
- Treating groups of different sizes as if they were equal.
- Swapping the groups and the number in each: the product is the same, but the story isn't.

⑤ Where it fits

BEFORE

2.OA.C.4

Use repeated addition to count objects in rows and columns.

THIS SHEET

3.OA.A.1

Understand multiplying as equal groups: 5×7 is 5 groups of 7.

NEXT

4.OA.A.1

Read multiplying as comparing: 35 is 5 times as many as 7.

⑥ Helping at home

Look for equal groups at home: eggs in a carton, wheels on cars, socks in pairs. Ask how many groups, how many in each, and how many in all.