LESSON MAKER PRO

Join the Groups

Use equal groups to find a total.

GRADE 2 · TEKS 2.6.A

2.6.A "model, create, and describe contextual multiplication situations in which equivalent sets of concrete objects are joined; and"

NAME _____ DATE _____

EQUAL GROUPS

Equal groups have the same number in each group. To find the total after groups are joined, add the number in each group again and again. You can also describe the groups by saying how many groups there are and how many are in each group.

WORKED EXAMPLE

There are 5 jars. Each jar has 7 buttons. How many buttons are there?

1. There are 5 equal groups.
2. Each group has 7 buttons.
3. Add 7 five times: 7 + 7 + 7 + 7 + 7 = 35.
4. 5 groups of 7 make 35.

Answer: 35 buttons

PRACTICE 5 problems

1 Two toy bins each have 4 cars. Write repeated addition and find the total.

ANSWER _____

2 Three puppy bowls each hold 2 treats. Write repeated addition and find the total.

ANSWER _____

3 Four kids each put 3 stickers in an album. Write repeated addition and find the total.

ANSWER _____

4 A shelf has 6 stacks of 2 books. Describe the groups and find the total.

ANSWER _____

5 Three boxes each hold 4 crayons. Write repeated addition and find the total.

ANSWER _____

APPLY IT Show your work

1 At a pet show, 4 rabbits each get 3 carrot pieces. How many carrot pieces do the rabbits get altogether?

WORK SPACE

ANSWER _____

2 Jay puts 6 trading cards in each of 3 packs. Then he joins the packs in one box. How many trading cards are in the box?

WORK SPACE

ANSWER _____

3 Your teacher supplies 12 counters and 4 small paper mats. Create your own equal-groups story using 2, 3 or 4 groups. Use the counters to build the groups on the mats with the same number in each group. Tell what each counter and each group represent in your story. Join all your groups, count the total and draw the groups as they were before joining. Write the matching repeated-addition sentence and explain your story to a partner or teacher.

WORK SPACE

ANSWER _____

CHALLENGE One step up

Lena has 3 bags with 4 beads in each bag. Omar says the answer is 3 + 4 = 7 beads. Is Omar right? Explain why or why not.

WORK SPACE AND ANSWER

ANSWER KEY

Join the Groups

GRADE 2 · TEKS 2.6.A

PART 1 · PRACTICE

#	PROBLEM	ANSWER
1	Two toy bins each have 4 cars. Write repeated addition and find the total.	**4 + 4 = 8 cars**
2	Three puppy bowls each hold 2 treats. Write repeated addition and find the total.	**2 + 2 + 2 = 6 treats**
3	Four kids each put 3 stickers in an album. Write repeated addition and find the total.	**3 + 3 + 3 + 3 = 12 stickers**
4	A shelf has 6 stacks of 2 books. Describe the groups and find the total.	**6 groups of 2 make 12 books**
5	Three boxes each hold 4 crayons. Write repeated addition and find the total.	**4 + 4 + 4 = 12 crayons**

PART 2 · APPLY IT

1. **12 carrot pieces** There are 4 equal groups of 3. Add 3 + 3 + 3 + 3 to get 12.
2. **18 trading cards** There are 3 equal groups of 6. Add 6 + 6 + 6 to get 18.
3. **Answers vary; for example, 3 bowls with 4 pretend treats each: 4 + 4 + 4 = 12 treats** Check real counter groups, equality, joining/counting and a learner-created context matching the groups and equation. With all 12 counters, accepted possibilities are 2 groups of 6,3 groups of 4 or 4 groups of 3. Smaller equal groups using fewer counters are acceptable if the displayed count and story match. Example 3 bowls of 4 counters joins to 12; the drawing retains 3 equal groups. An equation alone does not complete this task.

CHALLENGE

No. There are 3 groups of 4, so add 4 + 4 + 4 = 12 beads.

Accept repeated-addition or multiplication sentences that correctly show the equal groups and total. For the challenge, accept an explanation that 3 + 4 does not show three equal groups, and that the total is 12. Apply 3 requires the actual counter model plus the learner-created story, grouping sketch and matching sentence; provide listed materials and adult reading/scribing support.