LESSON MAKER PRO

Group It First

Write and describe expressions without finding their values.

GRADE 5 · 5.OA.2

5.OA.2 "Write simple expressions requiring parentheses that record calculations with numbers, and interpret numerical expressions without evaluating them."

NAME _____ DATE _____

THE BIG IDEA

Parentheses group numbers and operations that belong together. Use them to show which calculation happens first, then describe the expression without finding its value.

WORKED EXAMPLE

Write an expression for 6 times the sum of 14 and 8. Do not find its value.

1. Write the sum in parentheses: (14 + 8).
2. Show 6 times that entire sum: 6 × (14 + 8).

Answer: 6 × (14 + 8)

PRACTICE 6 problems

1 Write an expression for 5 times the sum of 12 and 3. Do not evaluate.

ANSWER _____

2 Write an expression for twice the difference between 40 and 11. Do not evaluate.

ANSWER _____

3 Write an expression for the total when 7 is added to 19, then the total is divided by 13. Do not evaluate.

ANSWER _____

4 Describe what 9 × (30 - 4) means without finding its value.

ANSWER _____

5 Describe what (25 + 15) ÷ 10 means without finding its value.

ANSWER _____

6 Describe what 60 - 3 × (21 - 16) means. Then name the calculation done first. Do not find the value.

ANSWER _____

APPLY IT Show your work

1 At a school movie night, each of 23 students buys a ticket for $5 and a snack for $2. Write one expression for the total cost of all their tickets and snacks. Do not evaluate.

WORK SPACE

ANSWER _____

2 You have 72 stickers. You give 12 stickers to a friend, then share the rest equally among 4 club members. Write one expression for the number each member gets. Do not evaluate.

WORK SPACE

ANSWER _____

CHALLENGE One step up

Sticker packs have 5 stickers each. Priya buys 3 packs, and Luca buys 2 packs. They combine their stickers and share them equally among 4 teammates. Write one expression for the number each teammate gets. Explain why parentheses are needed. Do not evaluate.

WORK SPACE AND ANSWER

ANSWER KEY

Group It First

GRADE 5 · 5.OA.2

PART 1 · PRACTICE

#	PROBLEM	ANSWER
1	Write an expression for 5 times the sum of 12 and 3. Do not evaluate.	**5 × (12 + 3)**
2	Write an expression for twice the difference between 40 and 11. Do not evaluate.	**2 × (40 - 11)**
3	Write an expression for the total when 7 is added to 19, then the total is divided by 13. Do not evaluate.	**(19 + 7) ÷ 13**
4	Describe what 9 × (30 - 4) means without finding its value.	**Multiply 9 by the difference between 30 and 4.**
5	Describe what (25 + 15) ÷ 10 means without finding its value.	**Divide the sum of 25 and 15 by 10.**
6	Describe what 60 - 3 × (21 - 16) means. Then name the calculation done first. Do not find the value.	**Subtract 3 times the difference between 21 and 16 from 60. First, subtract 16 from 21.**

PART 2 · APPLY IT

1. **23 × (5 + 2)** Group the cost of one ticket and one snack, then multiply by the number of students.
2. **(72 - 12) ÷ 4** Subtract the stickers given away before dividing the rest among 4 members.

CHALLENGE

(3 × 5 + 2 × 5) ÷ 4. The parentheses show that all the stickers are combined before they are divided among the teammates.

Accept equivalent expressions that preserve the order of the story's calculations. For descriptions, accept clear wording that identifies the grouped calculation without evaluating it.