LESSON MAKER PRO

Operation Order Quest

Simplify expressions by following the correct order.

GRADE 5 · 5.CE.4.a

5.CE.4.a "Use order of operations to simplify numerical expressions with whole numbers, limited to addition, subtraction, multiplication, and division in which:* expressions may contain no more than one set of parentheses..."

NAME _____ DATE _____

CHOOSE THE ORDER

First, simplify inside parentheses. Then multiply and divide from left to right, followed by addition and subtraction from left to right.

WORKED EXAMPLE

Simplify: 48 / 6 + (5 * 3)

1. 48 / 6 = 8.
2. 5 * 3 = 15.
3. 8 + 15 = 23.

Answer: 23

PRACTICE 6 problems

1 Simplify: 18 + 24 / 4

ANSWER _____

2 Simplify: (32 - 12) / 4 + 7

ANSWER _____

3 Simplify: 9 * 7 - 14

ANSWER _____

4 Simplify: 45 / 9 * 8

ANSWER _____

5 Simplify: 16 + (28 / 7) * 2

ANSWER _____

6 Simplify: (54 - 18) / 9 + 12 * 2

ANSWER _____

APPLY IT Show your work

1 At robotics club, Maya earns 8 points for each of 7 completed missions. She spends 24 points on parts, then shares the remaining points equally among 4 team members. How many points does each team member get?

WORK SPACE

ANSWER _____

2 A music club has 9 teams. Each team collects 11 snack packs. The club gets 21 extra snack packs and divides all the packs equally into 4 donation boxes. How many snack packs go in each box?

WORK SPACE

ANSWER _____

CHALLENGE One step up

A student says that (84 - 28) / 7 + 9 = 2. Explain the student's error and find the correct value.

WORK SPACE AND ANSWER

ANSWER KEY

Operation Order Quest

GRADE 5 · 5.CE.4.a

PART 1 · PRACTICE

#	PROBLEM	ANSWER
1	Simplify: 18 + 24 / 4	**24**
2	Simplify: (32 - 12) / 4 + 7	**12**
3	Simplify: 9 * 7 - 14	**49**
4	Simplify: 45 / 9 * 8	**40**
5	Simplify: 16 + (28 / 7) * 2	**24**
6	Simplify: (54 - 18) / 9 + 12 * 2	**28**

PART 2 · APPLY IT

1. **8 points** Multiply 8 by 7, subtract 24, then divide the remaining 32 points by 4.
2. **30 snack packs** Multiply 9 by 11, add 21, then divide 120 snack packs by 4.

CHALLENGE

The student did not follow the order of operations. First, 84 - 28 = 56. Then 56 / 7 = 8, and 8 + 9 = 17.

Accept correct numerical answers with reasonable work. For the challenge, accept any explanation that shows subtraction first, then division, then addition, with a final value of 17.