LESSON MAKER PRO

Operation Order Quest

Simplify expressions by following the correct order.

GRADE 5 · 5.CE.4.a.iv

5.CE.4.a.iv "Use order of operations to simplify numerical expressions with whole numbers, limited to addition, subtraction, multiplication, and division in which:* expressions should not include braces, brackets, or fraction bars."

NAME _____ DATE _____

CHOOSE THE RIGHT ORDER

Do what is inside parentheses first. Then multiply and divide from left to right, and add and subtract from left to right. Rewrite the expression after each step so your work stays clear.

WORKED EXAMPLE

$17 + 9 \times (5 - 4)$

1. $17 + 9 \times 1$
2. $17 + 9$
3. 26

Answer: 26

PRACTICE 6 problems

1 $8 + 3 \times 7$

ANSWER _____

2 $(24 - 12) \div 6$

ANSWER _____

3 $36 \div 6 + 14$

ANSWER _____

4 $2 \times (16 - 11) + 13$

ANSWER _____

5 $42 \div (10 - 3) + 6$

ANSWER _____

6 $7 + 28 \div 2 \times 3$

ANSWER _____

APPLY IT Show your work

1 A robotics club packs 48 batteries into 8 equal kits. The club uses 3 kits for a project and then gets 2 more batteries. How many batteries does the club have for the project?

WORK SPACE

ANSWER _____

2 Mia has 32 stickers. She gives 8 stickers to a friend, divides the rest equally among 6 prize bags, and puts 12 bonus stickers into one bag. How many stickers are in that bag?

WORK SPACE

ANSWER _____

CHALLENGE One step up

Simplify the expression. Show each step: 72 ÷ (15 - 7) + 6 × 11 - 13

WORK SPACE AND ANSWER

ANSWER KEY

Operation Order Quest

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PART 1 · PRACTICE

#	PROBLEM	ANSWER
1	8 + 3 × 7	**29**
2	(24 - 12) ÷ 6	**2**
3	36 ÷ 6 + 14	**20**
4	2 × (16 - 11) + 13	**23**
5	42 ÷ (10 - 3) + 6	**12**
6	7 + 28 ÷ 2 × 3	**49**

PART 2 · APPLY IT

1. **20 batteries** Divide 48 by 8 to find batteries in one kit, multiply by 3 kits, then add 2. 48 ÷ 8 × 3 + 2 = 20.
2. **16 stickers** Subtract the stickers Mia gave away, divide the remaining stickers among 6 bags, then add the bonus stickers. (32 - 8) ÷ 6 + 12 = 16.

CHALLENGE

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Accept correct answers with equivalent step-by-step work. For word problems, accept the number with or without the unit if the computation is correct.