

Operation Order Quest

Simplify expressions one step at a time.

GRADE 5 • 5.CE.4.a.i

5.CE.4.a.i "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 RIGHT ORDER

Work inside parentheses first. Then multiply and divide from left to right. Last, add and subtract from left to right.

WORKED EXAMPLE

$$18 + (7 * 3) - 5$$

1. Multiply inside the parentheses: $7 * 3 = 21$.
2. Add: $18 + 21 = 39$.
3. Subtract: $39 - 5 = 34$.

Answer: 34

PRACTICE 6 problems

1 $36 / 6 + 14$

ANSWER _____

2 $9 * 4 - 11$

ANSWER _____

3 $48 - (20 / 4)$

ANSWER _____

4 $(15 + 9) * 2$

ANSWER _____

5 $64 / 8 * 7$

ANSWER _____

6 $50 - 6 * 5 + 12$

ANSWER _____

APPLY IT Show your work

- 1** A video game club earns 12 points for each of 4 completed quests. Then the club earns 16 bonus points. How many points does the club earn altogether?

WORK SPACE

ANSWER _____

- 2** A collector has 72 trading cards. She fills 6 pages with 8 cards on each page and gives away all the cards on those pages. How many cards does she have left?

WORK SPACE

ANSWER _____

CHALLENGE One step up

CHALLENGE

$$96 \div (4 + 8) \times 9$$

PART 1 • PRACTICE

#	PROBLEM	ANSWER
1	$36 \div 6 + 14$	20
2	$9 * 4 - 11$	25
3	$48 - (20 \div 4)$	43
4	$(15 + 9) * 2$	48
5	$64 \div 8 * 7$	56
6	$50 - 6 * 5 + 12$	32

PART 2 • APPLY IT

1. **64 points** Multiply 4 by 12, then add 16: $48 + 16 = 64$ points.
2. **24 cards** Multiply 6 by 8 to find the cards given away, then subtract: $72 - 48 = 24$ cards.

CHALLENGE**72**

Accept correct numerical answers with or without written steps. Require multiplication and division to be completed from left to right after any parentheses are simplified.