

Operation Order Quest

Solve each expression in 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

Solve inside parentheses first. Then multiply and divide from left to right, before adding or subtracting. Finish addition and subtraction from left to right.

WORKED EXAMPLE

$$24 \div (3 + 1) \times 5$$

1. $24 \div 4 \times 5$

2. 6×5

3. 30

Answer: 30

PRACTICE 6 problems

1 $18 + 7 \times 4$

ANSWER _____

2 $(16 - 10) \times 6$

ANSWER _____

3 $48 \div 8 + 9$

ANSWER _____

4 $35 - 20 \div 4$

ANSWER _____

5 $2 \times 14 + 11$

ANSWER _____

6 $42 \div (9 - 2)$

ANSWER _____

APPLY IT Show your work

- 1** At the coding club, 6 teams build 8 mini-games each. Then 12 mini-games are deleted because they do not work. How many mini-games remain?

WORK SPACE

ANSWER _____

- 2** Jordan has 50 trading cards. Jordan gives 8 cards to each of 4 friends, then puts the remaining cards equally on 6 binder pages. How many cards go on each page?

WORK SPACE

ANSWER _____

CHALLENGE One step up

CHALLENGE

Simplify: $72 \div (8 + 4) + 6 \cdot 7$

PART 1 • PRACTICE

#	PROBLEM	ANSWER
1	$18 + 7 \cdot 4$	46
2	$(16 - 10) \cdot 6$	36
3	$48 \div 8 + 9$	15
4	$35 - 20 \div 4$	30
5	$2 \cdot 14 + 11$	39
6	$42 \div (9 - 2)$	6

PART 2 • APPLY IT

1. **36 mini-games** Multiply $6 \cdot 8$ to find the number built, then subtract 12. $48 - 12 = 36$.
2. **3 cards** Find the cards given away first: $8 \cdot 4 = 32$. Then $(50 - 32) \div 6 = 3$.

CHALLENGE

48

Accept correct numerical answers with or without intermediate steps. For the challenge, accept 48 when the student evaluates the parentheses first, then multiplication and division, then addition.