

Expression Expedition

Write, read, and solve number stories.

GRADE 5 • 5.NR.5

5.NR.5 "Write, interpret, and evaluate numerical expressions within authentic problems."

NAME _____

DATE _____

BUILD AND SOLVE EXPRESSIONS

A numerical expression uses numbers and operation signs to show a calculation. Use the order of operations: solve parentheses first, then multiply or divide, then add or subtract from left to right.

WORKED EXAMPLE

Evaluate $(63 - 15) / 6 + 8$.

1. Work inside parentheses: $63 - 15 = 48$.

2. Divide: $48 / 6 = 8$.

3. Add: $8 + 8 = 16$.

Answer: 16

PRACTICE 6 problems

1 Evaluate $72 / 9 + 14$.

ANSWER _____

2 Evaluate $5 \times (18 - 11)$.

ANSWER _____

3 Which expression shows 4 bags of 12 marbles plus 9 loose marbles?

ANSWER _____

4 Evaluate $90 - 3 \times 17$.

ANSWER _____

5 A music app has 7 playlists with 14 songs each. It deletes 13 songs. Write and evaluate an expression for the songs left.

ANSWER _____

6 Evaluate $(54 + 30) / 7$.

ANSWER _____

APPLY IT Show your work

- 1** Maya has 78 coins. She gives all 78 coins equally to 2 teammates, and Maya keeps none. How many coins does each teammate get?

WORK SPACE

ANSWER _____

- 2** A robotics club earns 24 points in each of 5 challenge rounds. The club loses 17 points for a late check-in. Write and evaluate an expression for the club's final score.

WORK SPACE

ANSWER _____

CHALLENGE One step up

CHALLENGE

A bookstore packs 3 boxes of bookmarks. Each box holds 4 bundles of 15 bookmarks. Then 18 bookmarks are given away. Write one expression and evaluate it to find how many bookmarks remain.

PART 1 • PRACTICE

#	PROBLEM	ANSWER
1	Evaluate $72 \div 9 + 14$.	22
2	Evaluate $5 \times (18 - 11)$.	35
3	Which expression shows 4 bags of 12 marbles plus 9 loose marbles?	$4 \times 12 + 9$
4	Evaluate $90 - 3 \times 17$.	39
5	A music app has 7 playlists with 14 songs each. It deletes 13 songs. Write and evaluate an expression for the songs left.	$7 \times 14 - 13 = 85$
6	Evaluate $(54 + 30) \div 7$.	12

PART 2 • APPLY IT

- 39 coins** Write $78 \div 2$. Each teammate gets 39 coins.
- $5 \times 24 - 17 = 103$ points** Multiply the points from 5 rounds, then subtract the penalty: $5 \times 24 - 17 = 103$.

CHALLENGE

$3 \times 4 \times 15 - 18 = 162$ bookmarks

Accept equivalent expressions that keep the same operations and order, such as $12 \times 4 + 9$ for problem 3. Accept $\times$ or parentheses when students write multiplication expressions.