

Expression Code Breakers

Turn math words into expressions.

GRADE 6 • 6.EE.A.2a

CCSS.Math.Content.6.EE.A.2a "Write expressions that record operations with numbers and with letters standing for numbers. For example, express the calculation "Subtract y from 5" as $5 - y$."

NAME _____

DATE _____

READ THE ORDER

An expression shows a calculation using numbers, variables, and operation signs. Read order words carefully: "subtract a from b" means $b - a$. Use parentheses when a whole sum or difference is multiplied or divided.

WORKED EXAMPLE

Write an expression for: Subtract b from 17, then multiply the result by 4.

1. Start with 17.
2. Subtract b: $17 - b$.
3. Multiply the result by 4: $4(17 - b)$.

Answer: $4(17 - b)$

PRACTICE 6 problems

1 Write an expression: Add 8 and n.

ANSWER _____

2 Write an expression: Subtract q from 19.

ANSWER _____

3 Write an expression: Multiply m by 6.

ANSWER _____

4 Write an expression: Divide r by 11.

ANSWER _____

5 Write an expression: Five less than t.

ANSWER _____

6 Write an expression: Multiply a by 2, then add 9.

ANSWER _____

APPLY IT Show your work

- 1** In an online game, you have c coins. You spend 12 coins on an upgrade and earn 5 coins for each quest q that you complete. Write an expression for your number of coins.

WORK SPACE

ANSWER _____

- 2** The art club has 48 beads. It uses d beads for keychains and shares the remaining beads equally among 6 teams. Write an expression for the number of beads each team gets.

WORK SPACE

ANSWER _____

CHALLENGE One step up

CHALLENGE

Write an expression for: Divide the sum of k and 10 by 2. Explain why $k + 10/2$ does not represent the phrase.

PART 1 • PRACTICE

#	PROBLEM	ANSWER
1	Write an expression: Add 8 and n .	$8 + n$
2	Write an expression: Subtract q from 19.	$19 - q$
3	Write an expression: Multiply m by 6.	$6m$
4	Write an expression: Divide r by 11.	$r/11$
5	Write an expression: Five less than t .	$t - 5$
6	Write an expression: Multiply a by 2, then add 9.	$2a + 9$

PART 2 • APPLY IT

1. $c - 12 + 5q$ Start with c coins. Subtract 12, then add $5q$ coins earned from quests.
2. $(48 - d)/6$ Subtract the beads used for keychains from 48. Divide the remaining amount by 6 teams.

CHALLENGE

$(k + 10)/2$. The parentheses show that k and 10 are added before the sum is divided by 2. In $k + 10/2$, only 10 is divided by 2.

Accept equivalent forms such as $n + 8$ for $8 + n$ and $m * 6$ for $6m$. Do not accept reversed subtraction or division expressions, and require parentheses when the entire sum or difference must be grouped.