LESSON MAKER PRO

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

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

WORK SPACE AND ANSWER

ANSWER KEY

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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.