LESSON MAKER PRO

Expression Remix

Break apart, combine, and rewrite expressions.

GRADE 7 · 7.EE.A

CCSS.Math.Content.7.EE.A "Use properties of operations to generate equivalent expressions."

NAME _____ DATE _____

BUILD EQUIVALENT EXPRESSIONS

Use the distributive property to multiply a number by every term inside parentheses. Then combine like terms, which have the same variable part. Keep each term's sign when you combine.

WORKED EXAMPLE

Simplify: $8(4x + 3) + x$

1. Distribute 8: $32x + 24 + x$
2. Combine like terms: $33x + 24$

Answer: 33x + 24

PRACTICE 6 problems

1 Simplify: $11x + 14 - 5x$

ANSWER _____

2 Simplify: $10(y + 9) - 5y$

ANSWER _____

3 Simplify: $11(a - 2) + 6a$

ANSWER _____

4 Simplify: $16 - 9(n + 2)$

ANSWER _____

5 Simplify: $14p - 6 + 9p + 12$

ANSWER _____

6 Simplify: $16 - 9(5m - 2)$

ANSWER _____

APPLY IT Show your work

1 Ava is putting together 7 prize bags for a school game night. Each bag has p stickers and 6 buttons. Write and simplify an expression for the total number of items in all the bags.

WORK SPACE

ANSWER _____

2 Rina buys 5 identical game add-on bundles. Each bundle includes g collectible cards and 7 digital tokens. Write and simplify an expression for the total number of cards and tokens.

WORK SPACE

ANSWER _____

CHALLENGE One step up

Simplify: 12(2x - 5) - 7(x + 6) + 9

WORK SPACE AND ANSWER

ANSWER KEY

Expression Remix

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PART 1 · PRACTICE

#	PROBLEM	ANSWER
1	Simplify: 11x + 14 - 5x	**6x + 14**
2	Simplify: 10(y + 9) - 5y	**5y + 90**
3	Simplify: 11(a - 2) + 6a	**17a - 22**
4	Simplify: 16 - 9(n + 2)	**-9n - 2**
5	Simplify: 14p - 6 + 9p + 12	**23p + 6**
6	Simplify: 16 - 9(5m - 2)	**34 - 45m**

PART 2 · APPLY IT

1. **7p + 42** Write 7(p + 6) because there are 7 identical bags. Distribute 7 to get 7p + 42.
2. **5g + 35** Write 5(g + 7) for the 5 identical bundles. Distribute 5 to get 5g + 35.

CHALLENGE

17x - 93

Accept terms written in a different order, such as 14 + 6x. Students may show distribution and combining steps in a different valid order.