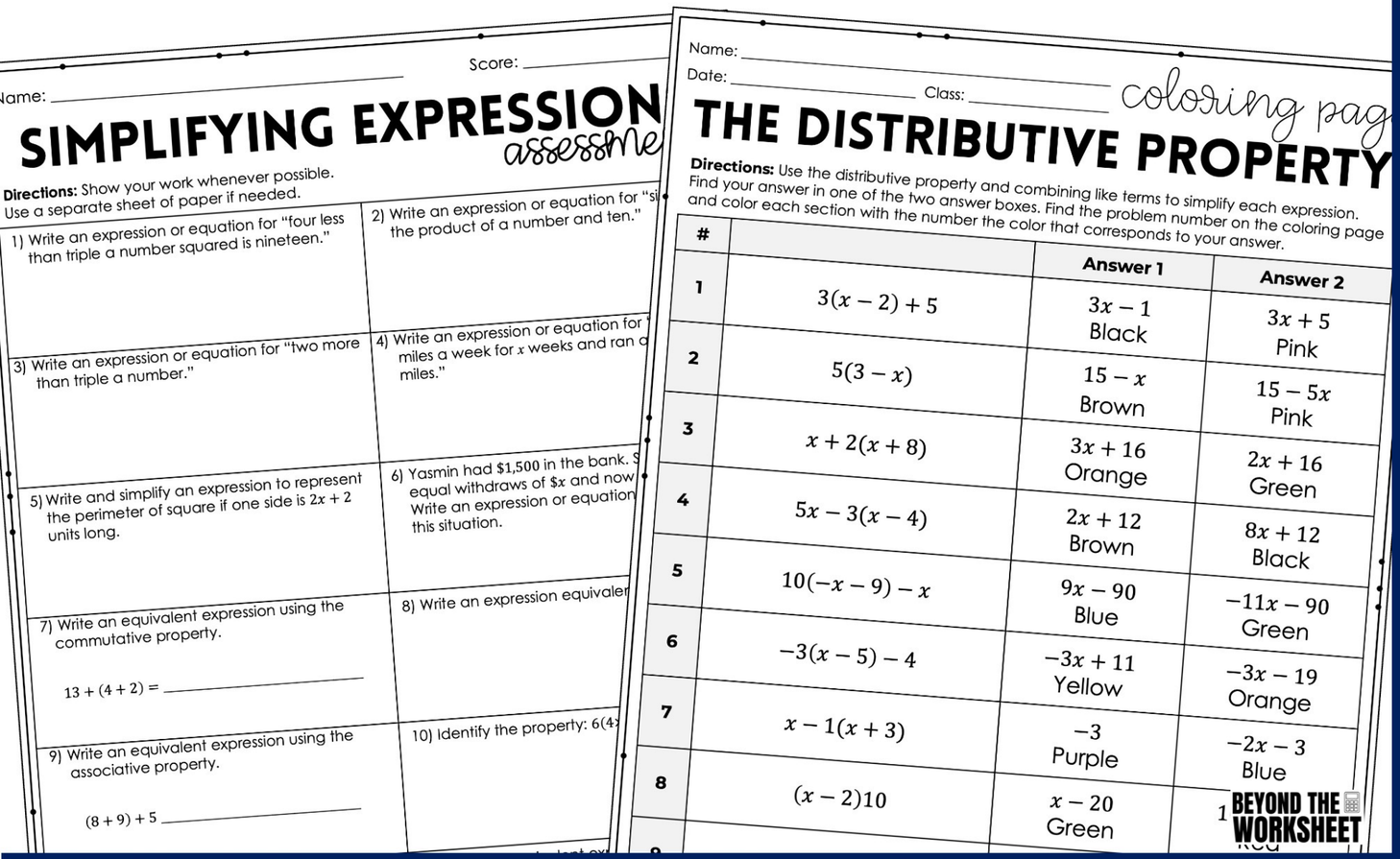
ALGEBRA 1 CURRICULUM – UNIT 2

SIMPLIFYING EXPRESSIONS



Name: _____ Score: _____

SIMPLIFYING EXPRESSION assessme

Directions: Show your work whenever possible.
Use a separate sheet of paper if needed.

1) Write an expression or equation for "four less than triple a number squared is nineteen."	2) Write an expression or equation for "si the product of a number and ten."
3) Write an expression or equation for "two more than triple a number."	4) Write an expression or equation for miles a week for x weeks and ran miles."
5) Write and simplify an expression to represent the perimeter of square if one side is $2x + 2$ units long.	6) Yasmin had $1,500 in the bank. equal withdraws of $x and now Write an expression or equation this situation.
7) Write an equivalent expression using the commutative property. $13 + (4 + 2) =$ _____	8) Write an expression equivaler
9) Write an equivalent expression using the associative property. $(8 + 9) + 5$ _____	10) Identify the property: $6(4$

Name: _____
Date: _____ Class: _____ coloring pag

THE DISTRIBUTIVE PROPERTY

Directions: Use the distributive property and combining like terms to simplify each expression. Find your answer in one of the two answer boxes. Find the problem number on the coloring page and color each section with the number the color that corresponds to your answer.

#		Answer 1	Answer 2
1	$3(x-2)+5$	$3x-1$ Black	$3x+5$ Pink
2	$5(3-x)$	$15-x$ Brown	$15-5x$ Pink
3	$x+2(x+8)$	$3x+16$ Orange	$2x+16$ Green
4	$5x-3(x-4)$	$2x+12$ Brown	$8x+12$ Black
5	$10(-x-9)-x$	$9x-90$ Blue	$-11x-90$ Green
6	$-3(x-5)-4$	$-3x+11$ Yellow	$-3x-19$ Orange
7	$x-1(x+3)$	-3 Purple	$-2x-3$ Blue
8	$(x-2)10$	$x-20$ Green	1

BEYOND THE WORKSHEET

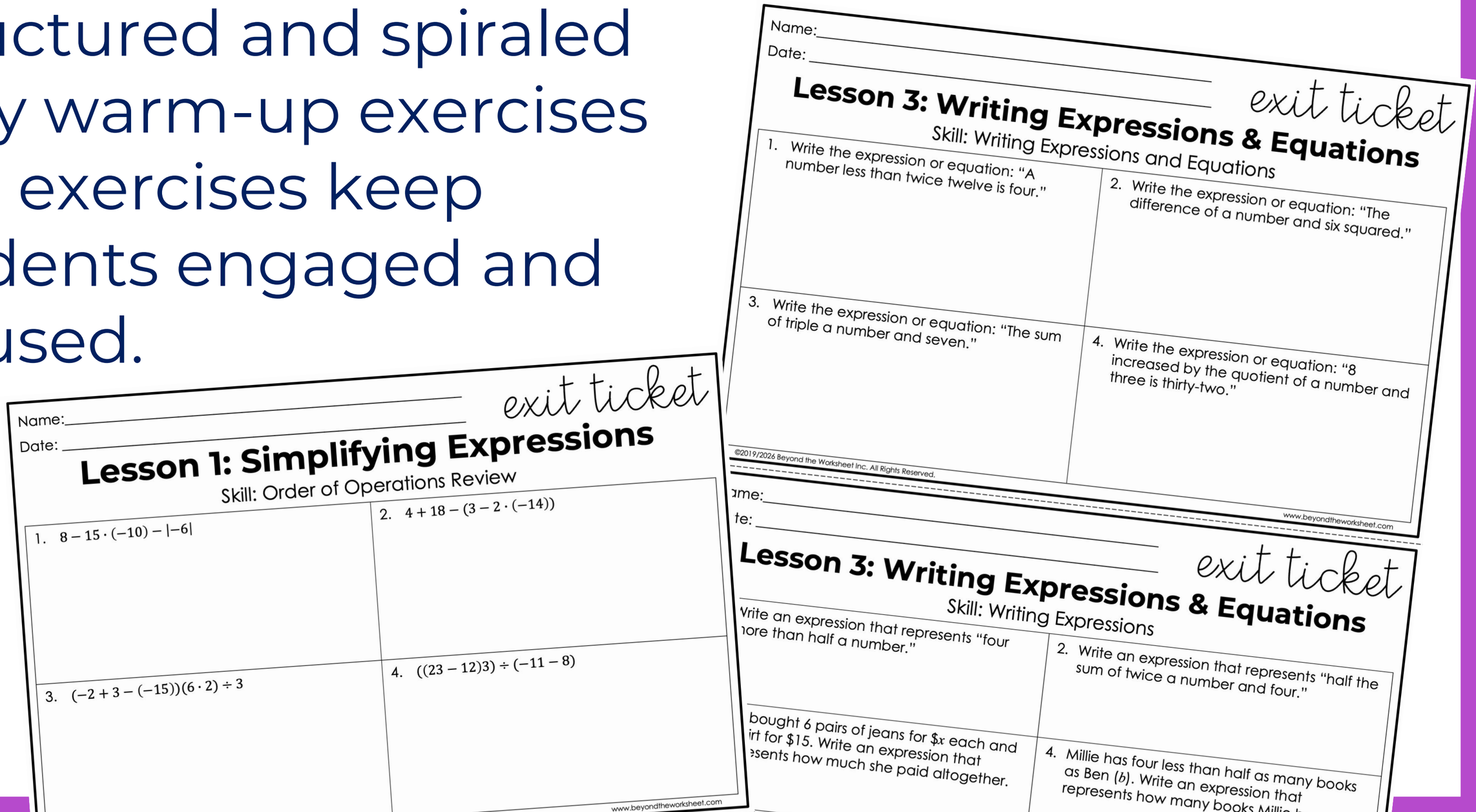
GUIDED NOTES, PRACTICE, ACTIVITIES, ASSESSMENTS AND MORE!

Help students build a strong algebra foundation with this comprehensive **Simplifying Expressions Unit**. Students begin by reviewing order of operations before simplifying algebraic expressions using the distributive property, combining like terms, evaluating expressions, and writing algebraic expressions and equations from real-world situations.

learn more!

WARM-UPS & EXIT TICKETS

- Structured and spiraled daily warm-up exercises and exercises keep students engaged and focused.



Name:

Date:

exit ticket

Lesson 1: Simplifying Expressions

Skill: Order of Operations Review

1. $8 - 15 \cdot (-10) - |-6|$
2. $4 + 18 - (3 - 2 \cdot (-14))$
3. $(-2 + 3 - (-15))(6 \cdot 2) \div 3$
4. $((23 - 12)3) \div (-11 - 8)$

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Name:

Date:

exit ticket

Lesson 3: Writing Expressions & Equations

Skill: Writing Expressions and Equations

1. Write the expression or equation: "A number less than twice twelve is four."
2. Write the expression or equation: "The difference of a number and six squared."
3. Write the expression or equation: "The sum of triple a number and seven."
4. Write the expression or equation: "8 increased by the quotient of a number and three is thirty-two."

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Lesson 3: Writing Expressions & Equations

Skill: Writing Expressions

Vrite an expression that represents "four ore than half a number."

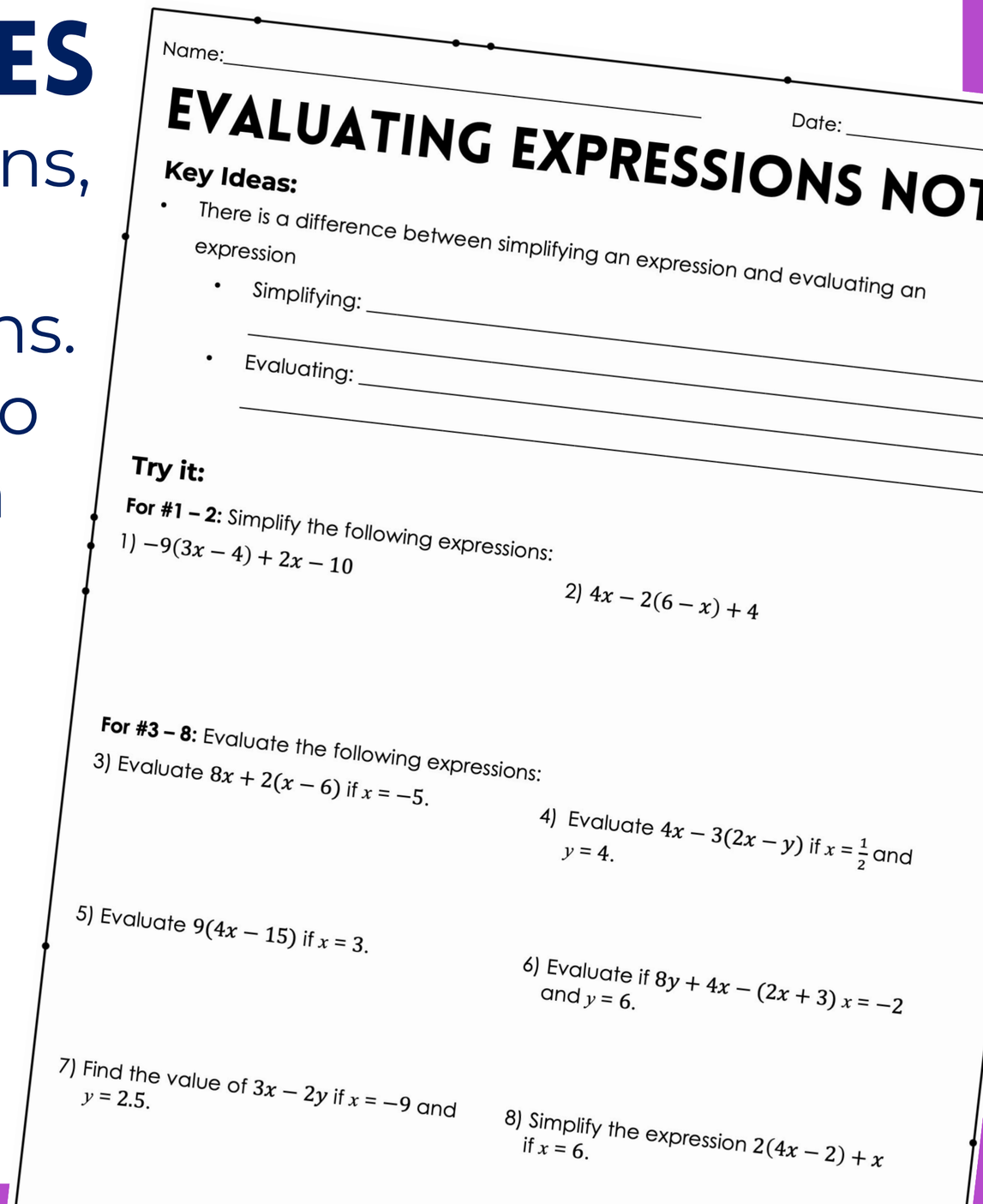
2. Write an expression that represents "half the sum of twice a number and four."

bought 6 pairs of jeans for $\$x$ each and irt for $15. Write an expression that esents how much she paid altogether.

4. Millie has four less than half as many books as Ben (b). Write an expression that represents how many books Millie

STUDENT FRIENDLY NOTES

- This unit covers order of operations, simplifying and evaluating expressions, and writing equations.
- The notes give students a place to learn the steps for each skill, with guided practice.



Name: _____ Date: _____

EVALUATING EXPRESSIONS NOT

Key Ideas:

- There is a difference between simplifying an expression and evaluating an expression
  - Simplifying: _____
  - Evaluating: _____

Try it:

For #1 – 2: Simplify the following expressions:

1) $-9(3x-4)+2x-10$

2) $4x-2(6-x)+4$

For #3 – 8: Evaluate the following expressions:

3) Evaluate $8x+2(x-6)$ if $x=-5$.

4) Evaluate $4x-3(2x-y)$ if $x=\frac{1}{2}$ and $y=4$.

5) Evaluate $9(4x-15)$ if $x=3$.

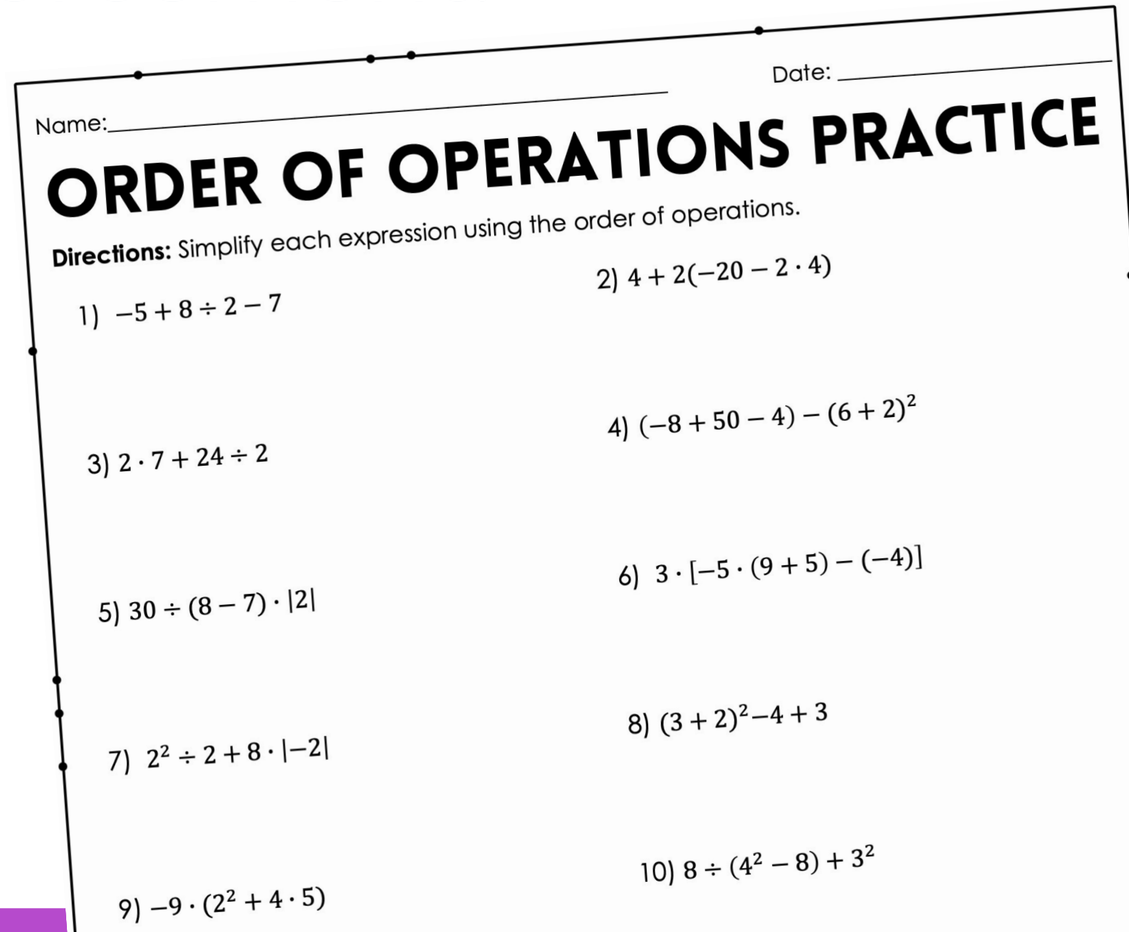
6) Evaluate if $8y+4x-(2x+3)$ $x=-2$ and $y=6$.

7) Find the value of $3x-2y$ if $x=-9$ and $y=2.5$.

8) Simplify the expression $2(4x-2)+x$ if $x=6$.

PRACTICE WORKSHEETS

- Each skill includes a worksheet for independent practice and skill reinforcement.



Name: _____ Date: _____

ORDER OF OPERATIONS PRACTICE

Directions: Simplify each expression using the order of operations.

1) $-5 + 8 \div 2 - 7$

2) $4 + 2(-20 - 2 \cdot 4)$

3) $2 \cdot 7 + 24 \div 2$

4) $(-8 + 50 - 4) - (6 + 2)^2$

5) $30 \div (8 - 7) \cdot |2|$

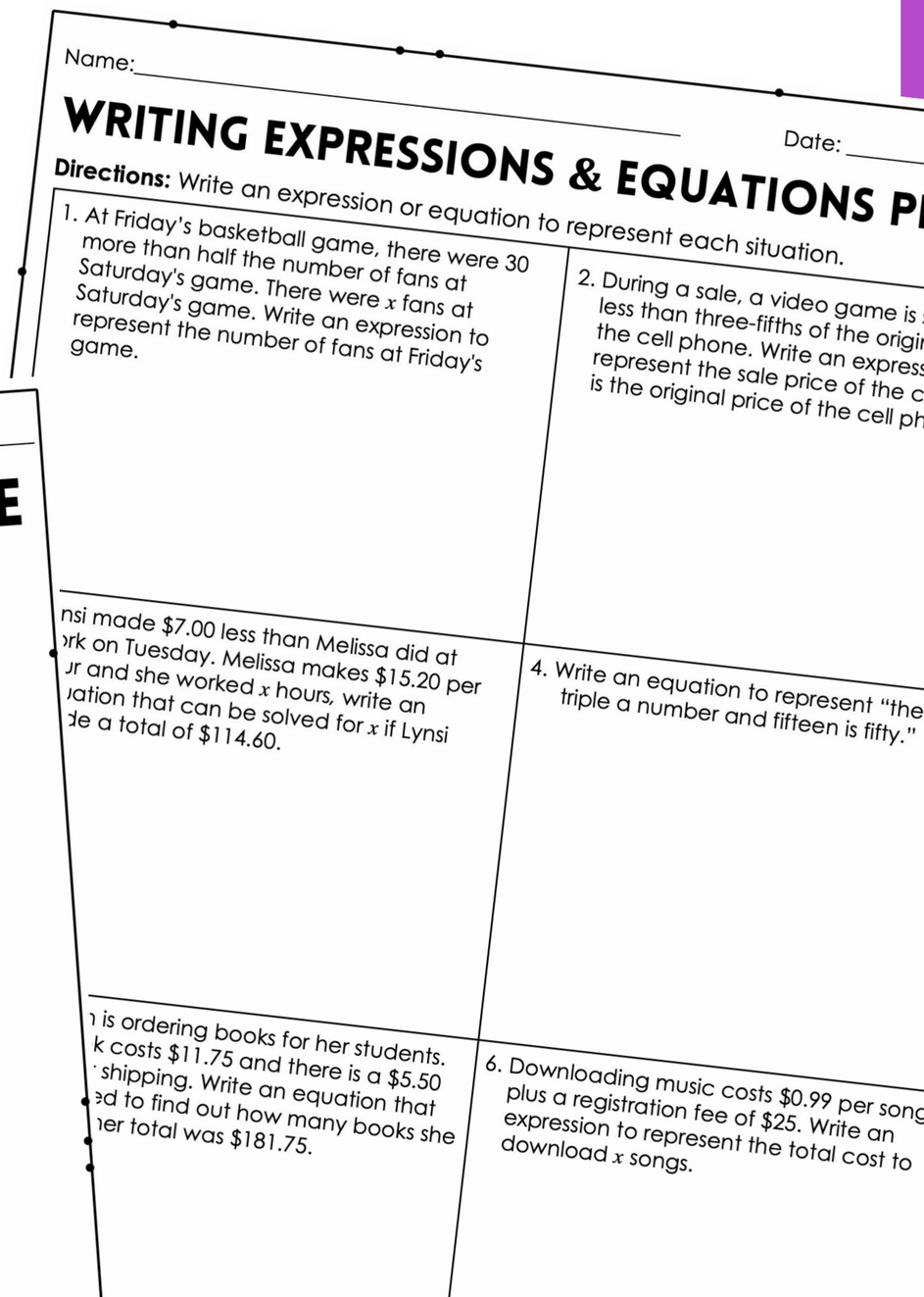
6) $3 \cdot [-5 \cdot (9 + 5) - (-4)]$

7) $2^2 \div 2 + 8 \cdot |-2|$

8) $(3 + 2)^2 - 4 + 3$

9) $-9 \cdot (2^2 + 4 \cdot 5)$

10) $8 \div (4^2 - 8) + 3^2$



Name: _____ Date: _____

WRITING EXPRESSIONS & EQUATIONS P

Directions: Write an expression or equation to represent each situation.

1. At Friday's basketball game, there were 30 more than half the number of fans at Saturday's game. There were x fans at Saturday's game. Write an expression to represent the number of fans at Friday's game.

2. During a sale, a video game is … less than three-fifths of the origin… the cell phone. Write an express… represent the sale price of the c… is the original price of the cell ph…

…nsi made $7.00 less than Melissa did at …rk on Tuesday. Melissa makes $15.20 per …ur and she worked x hours, write an …uation that can be solved for x if Lynsi …de a total of $114.60.

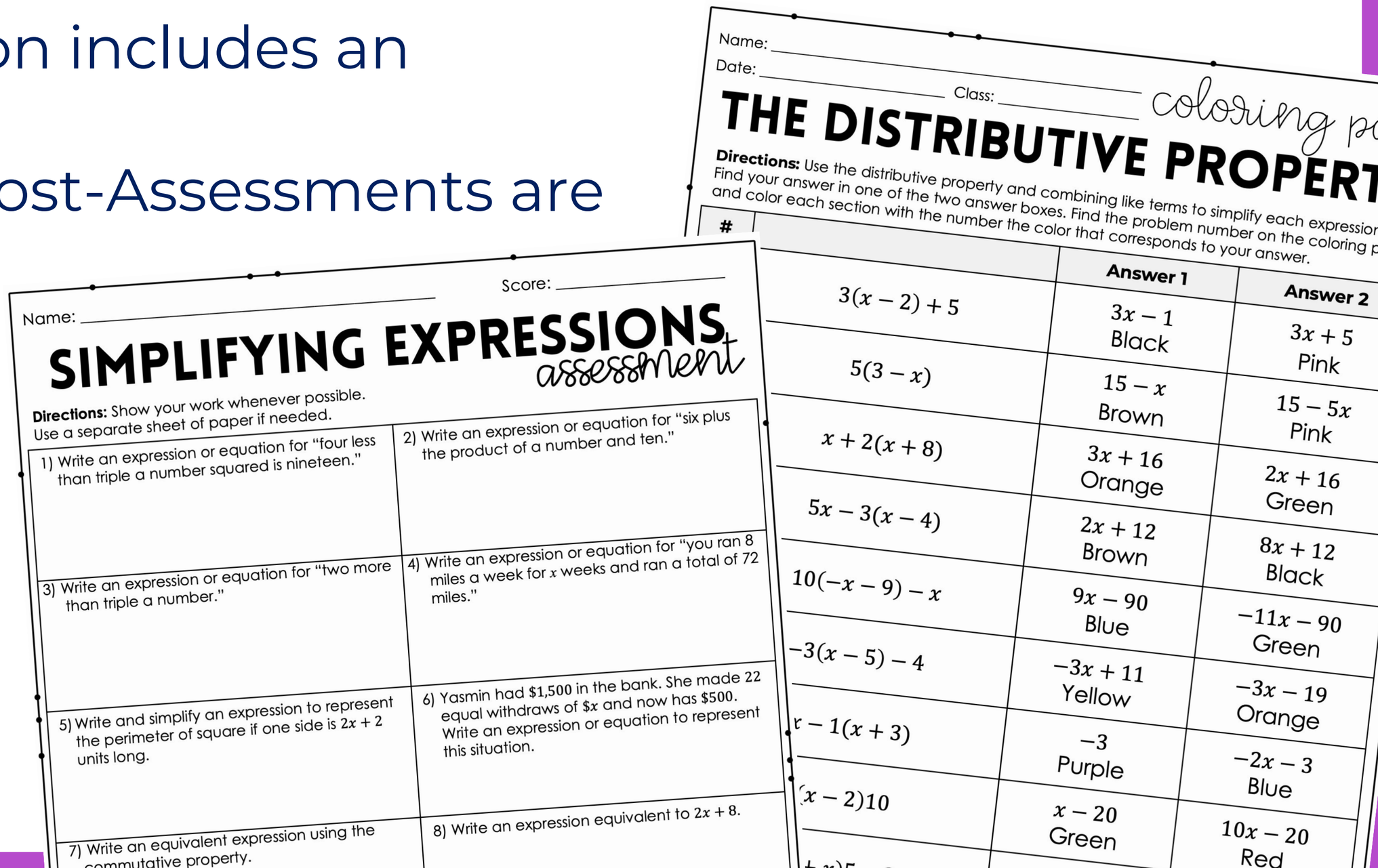
4. Write an equation to represent "the… triple a number and fifteen is fifty."

…n is ordering books for her students. …k costs $11.75 and there is a $5.50 … shipping. Write an equation that …ed to find out how many books she …ner total was $181.75.

6. Downloading music costs $0.99 per song… plus a registration fee of $25. Write an expression to represent the total cost to download x songs.

ACTIVITIES AND ASSESSMENTS

- Each lesson includes an activity.
- Pre and Post-Assessments are included.



Name: _____ Score: _____

SIMPLIFYING EXPRESSIONS *assessment*

Directions: Show your work whenever possible. Use a separate sheet of paper if needed.

1) Write an expression or equation for "four less than triple a number squared is nineteen."	2) Write an expression or equation for "six plus the product of a number and ten."
3) Write an expression or equation for "two more than triple a number."	4) Write an expression or equation for "you ran 8 miles a week for x weeks and ran a total of 72 miles."
5) Write and simplify an expression to represent the perimeter of square if one side is $2x + 2$ units long.	6) Yasmin had \$1,500 in the bank. She made 22 equal withdraws of \$$x$ and now has \$500. Write an expression or equation to represent this situation.
7) Write an equivalent expression using the commutative property.	8) Write an expression equivalent to $2x + 8$.

Name: _____

Date: _____ Class: _____ coloring p

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	$r-1(x+3)$	-3 Purple	$-2x-3$ Blue
	$(x-2)10$	$x-20$ Green	$10x-20$ Red
	$+x)5$		

EVERYTHING INCLUDED:

- Lessons are designed for 30-45 minute on-level classes and may need to be adjusted for longer classes or varied levels.
- Also included is a pacing guide and tracking sheets to record student progress.

UNIT 2

ALGEBRA 1 curriculum
BEYOND THE WORKSHEET

Simplifying Expressions

Lesson	Resources	
Unit Prep (pgs. 3 – 9)	• Weekly Warm Up Sheet • Exit Tickets	• Lesson Plan Template • Unit Pre Assessment
(1) Simplifying Expressions (pgs. 10 – 23)	• 3 Warm Ups • Absolute Value Notes • Absolute Value Practice Worksheet • Properties of Operations Notes • Properties of Operations Practice Worksheet • Distributive Property Notes	• Distributive Property Practice Worksheet • Distributive Property Coloring Worksheet • Order of Operations Practice Worksheet • Distributive Property Puzzle with Integers • Distributive Property Stations • 3 Exit Tickets
(2) Evaluating Expressions Review (pgs. 24 – 30)	• Two Warm Ups • Evaluating Expressions Notes • Evaluating Expressions Practice Worksheets	• Evaluating Expressions Error Analysis • Evaluating Expressions Spin/Roll to Solve Game • Two Exit Tickets
(3) Writing Expressions and Equations (pgs. 31 – 47)	• Three Warm Ups • Writing Expressions & Equations Graphic Organizer • Writing Expressions & Equations Notes • Writing Expressions & Equations Practice Worksheets	• Equivalent Expressions Practice Worksheet • Writing Algebraic Expressions Matching Activity • Expressions Quiz • Three Exit Tickets
End of Unit (pgs. 48 – 51)	• Study Guide • Unit Exam	

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Have questions?

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