UNIT 6 · STANDARD 6.EE.2A

Write Algebraic Expressions

Lesson 6-3

Name: Type your name **Date:** Today's date **Class:** Class period

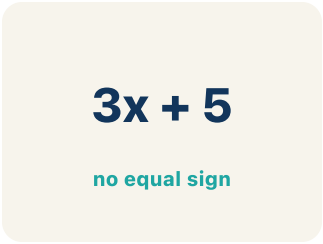
Key Vocabulary Level 2 Standard

Picture first, then the word, then a plain-language meaning. Say each word out loud.

In 5t + 20, t could be hours worked — if t = 3, the expression equals 35; if t = 8, it equals 60

Variable

Write the definition:



3n + 7 means 'triple a number, then add 7' — it has a variable (n), a coefficient (3), and a constant (7)

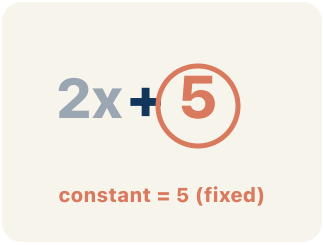
Algebraic Expression

Write the definition:

In 8x, the coefficient 8 means '8 groups of x' — if x = 3, then 8x = 8 × 3 = 24

Coefficient

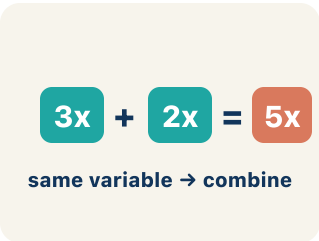
Write the definition:



In 3n + 7, the 7 never changes no matter what n is — like a flat fee that stays the same

Constant

Write the definition:



4x + 2x = 6x (like terms, same variable); but 4x + 2y cannot be combined (different variables)

Like terms

Write the definition:

Guided Notes Level 2 Standard

🎯 **WHAT WE'RE LEARNING TODAY**

I can write algebraic expressions from words and real-world situations.

✏️ **Fill in each blank as we go. Use the Word Bank to help you.**

📚 **WORD BANK — FILL EACH BLANK WITH THE BEST WORD**

Variable | Algebraic Expression | Coefficient | Constant | Like terms

☝️ *Tap any word to see what it means and a picture.*

1. A letter that stands for an unknown number is a _____.

2. A math phrase with variables, numbers, and operations but no equal sign is an _____.

3. The number multiplied by a variable, like the 7 in 7n, is the _____.

4. A term that is just a number and never changes, like the 5 in 3x + 5, is a _____.

5. Terms with the same variable part are _____.

🧱 Watch & Try — Worked Examples

See the notes in action: watch one worked all the way through, then try the next with the same steps.

👀 I do — watch

Follow each step as your teacher solves it.

Problem: Which expression represents 'the product of 6 and a number n'?

A. 6n

B. 6 + n

C. n – 6

D. n ÷ 6

Step 1 'Product' means multiplication, so the product of 6 and n is 6n.

✅ **Answer:** A. 6n

🤝 We do — together

Solve this one with your class using the same steps.

Problem: Which expression represents '9 less than a number y'?

A. y – 9

B. 9 – y

C. y + 9

D. 9y

Step 1 _____

Step 2 _____

Answer: _____

✏️ **You do — your turn**

Now try one on your own. Show every step.

Problem: Which expression represents 'the sum of a number m and 15'?

A. m + 15

B. m − 15

C. 15m

D. m ÷ 15

Show your work:

Try It

Solve on your own. Check the answer key when you are done.

1. Line 2: The chorus says '5 less than a number of tracks x.' Which expression matches?

A. $x - 5$

B. $5 - x$

C. $5x$

D. $x + 5$

Show your work:

2. Line 3: A verse says 'twice a number of speakers' (use s). Which expression matches?

A. $2s$

B. $s + 2$

C. $s - 2$

D. $s \div 2$

Show your work:

Stretch Your Thinking

Level 2 enrichment

Challenge task — explain your reasoning in full sentences.

Write a real-world situation that could be modeled by the expression 4n + 10. Explain what the variable n represents, what the coefficient 4 means, and what the constant 10 represents.

Sentence starter: Situation: ____. The variable n represents ____. The coefficient 4 means ____ for each ____. The constant 10 represents ____.

Show your work:

Reflect — Exit Ticket

Which expression represents '3 more than twice a number n'?

A. 2n + 3

B. 3n + 2

C. 2(n + 3)

D. 2 + 3n

Your answer: