UNIT 6 · STANDARD 6.EE.2C

Evaluate Expressions

Lesson 6-2

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

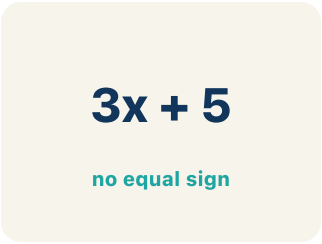
Key Vocabulary Level 2 Standard

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

In 3x + 5, x can be any number — if x = 2, the expression equals 11; if x = 10, it equals 35

Variable

Write the definition:



2n + 7 is an expression: the 2n means '2 times some number' and the + 7 means 'then add 7'

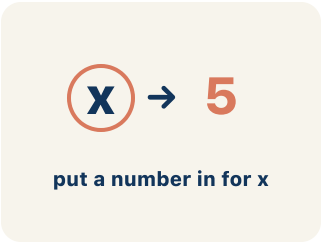
Expression

Write the definition:

Evaluate 2n + 7 when n = 4: replace n with 4 → 2(4) + 7 = 8 + 7 = 15

Evaluate

Write the definition:



Substitute 3 for x in 5x: replace x with 3 → 5(3) = 15

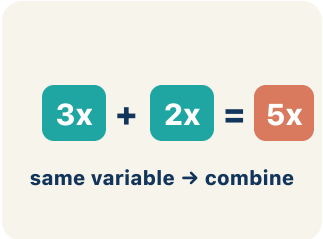
Substitute

Write the definition:

In 7m, the coefficient 7 tells you to multiply m by 7 — if m = 3, then 7m = 21

Coefficient

Write the definition:



4x and 2x are like terms (both x^1); 4x and 4y are NOT (different variables)

Like terms

Write the definition:

Guided Notes Level 2 Standard

🎯 **WHAT WE'RE LEARNING TODAY**

I can evaluate algebraic expressions by substituting values for the variables.

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

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

Variable | Expression | Evaluate | Substitute | Coefficient | Like terms

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

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

2. A group of numbers, variables, and operations with no equal sign is an _____.

3. To find the value of an expression for given values is to _____ it.

4. To replace a variable with a number is to _____.

5. A number multiplied by a variable, like the 4 in 4y, is a _____.

6. Terms with the same variable part, like 2x and 6x, 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: Evaluate 3x + 7 when x = 4.

A. 19

B. 34

C. 12

D. 14

Step 1 3(4) + 7 = 12 + 7 = 19.

✅ **Answer:** A. 19

🤝 **We do — together**

Solve this one with your class using the same steps.

Problem: Evaluate 20 − 2n when n = 6.

A. 8

B. 14

C. 32

D. 12

Step 1 _____

Step 2 _____

Answer: _____

✏️ **You do — your turn**

Now try one on your own. Show every step.

Problem: Which expression means '5 less than twice a number n'?

A. 2n − 5

B. 5 − 2n

C. 2(n − 5)

D. 2 − 5n

Show your work:

Try It

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

1. Track 2 — The volume mix is 2(n + 3), where n is the number of monitors. Evaluate 2(n + 3) when n = 5.

A. 16

B. 13

C. 20

D. 26

Show your work:

2. Track 3 — The speaker power is x^2, where x is the gain setting. Evaluate x^2 when x = 6.

A. 36

B. 12

C. 18

D. 30

Show your work:

Stretch Your Thinking

Level 2 enrichment

Challenge task — explain your reasoning in full sentences.

A gym membership costs $25 per month plus a $40 signup fee. Write an expression using m for months, then evaluate it for 6 months and 12 months. Explain what each part of the expression represents.

Sentence starter: The expression is ____. For 6 months: ____ = ____. For 12 months: ____ = ____. The ____ represents the ____ and the ____ represents the ____.

Show your work:

Reflect — Exit Ticket

Evaluate 5(n − 3) + 2 when n = 7.

A. 22

B. 32

C. 17

D. 36

Your answer: