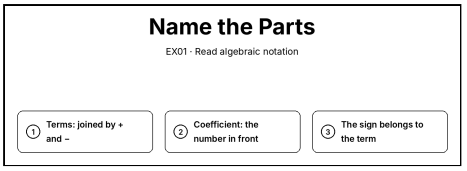
Name the Parts: teacher script

EX01-V1 · EX01 Read algebraic notation · teachers only. Without a screen, read each Say line and draw each Draw step on the board. About 76 seconds as a video.

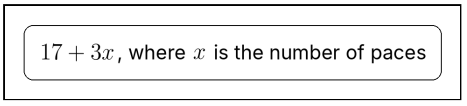
01



Say. Name the parts. An expression is made of terms, joined by plus and minus. Each term has a coefficient, the number in front. And the sign belongs to the term.

Draw. Write the title “Name the Parts” and the steps: 1. Terms: joined by + and −; 2. Coefficient: the number in front; 3. The sign belongs to the term.

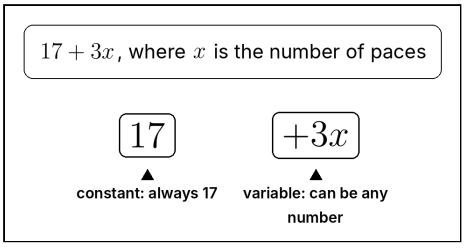
02



Say. Captain Hook's clue becomes 17 + 3x, where x stands for the number of paces to the treasure.

Draw. Clear the board. Write “17 + 3x, where x is the number of paces” in a box at the top.

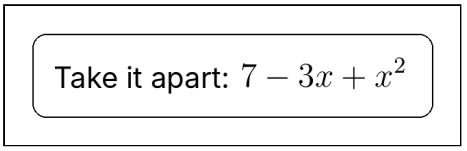
03



Say. x is a variable: it can be any number. 17 is a constant: it is always 17.

Draw. Write 17 +3x, with a box round each term. Under 3x, draw an arrow and write “variable: can be any number”. Under 17, draw an arrow and write “constant: always 17”.

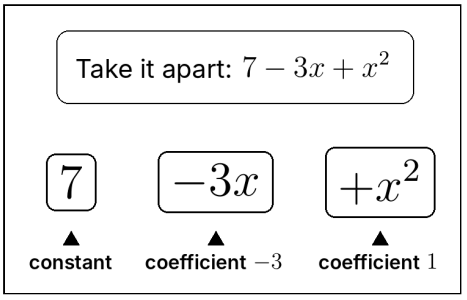
04



Say. Now take 7 − 3x + x² apart.

Draw. Clear the board. Write “Take it apart: 7 − 3x + x²” in a box at the top.

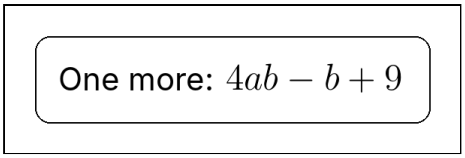
05



Say. It has three terms. 7 is the constant term. Negative three x is negative three times x, so its coefficient is −3. And x² on its own is one times x²: coefficient 1.

Draw. Write 7 −3x +x², with a box round each term. Under 7, draw an arrow and write “constant”. Under −3x, draw an arrow and write “coefficient −3”. Under x², draw an arrow and write “coefficient 1”.

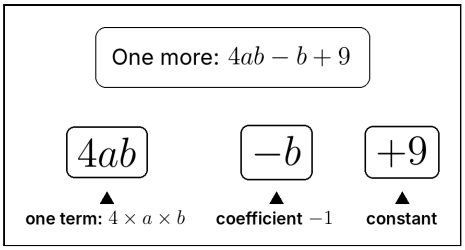
06



Say. One more: 4ab – b + 9.

Draw. Clear the board. Write “One more: 4ab – b + 9” in a box at the top.

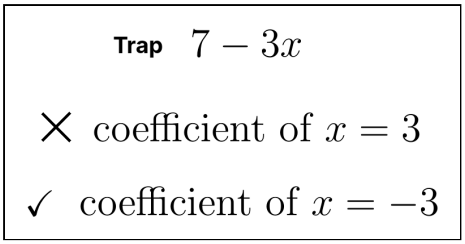
07



Say. 4ab means four times a times b: three factors, but one term, because they are multiplied. −b has coefficient −1. And 9 is the constant.

Draw. Write 4ab −b +9, with a box round each term. Under 4ab, draw an arrow and write “one term: 4 × a × b”. Under −b, draw an arrow and write “coefficient −1”. Under 9, draw an arrow and write “constant”.

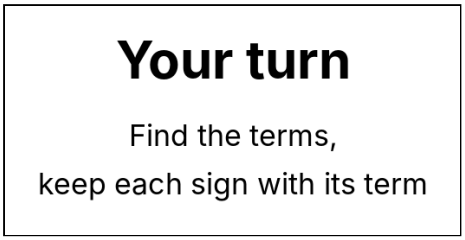
08



Say. Watch for the trap: dropping the sign. In seven minus three x, the coefficient is not three. The minus sign belongs to the term, so it is −3.

Draw. Clear the board. Write “Trap” and 7 − 3x. Below, write coefficient of x = 3 and cross it out ×. Then write coefficient of x = −3 with a tick ✓.

09



Say. Now it is your turn. Find the terms, and keep each sign with its term.

Draw. Point to today’s activity: Find the terms, keep each sign with its term