Lesson 110 Simplifying simple expressions

TIDYING AN EXPRESSION

1. Start with 4x + 3 + 2x. Underline the x-terms in one colour and the plain numbers in another.
2. Add the x-terms: 4x + 2x = 6x.
3. The plain number stays as it is: + 3.
4. The simplified expression is 6x + 3.

WARM-UP

Simplify each expression. Write the tidy answer on its line.

3x + 4x = _____

2x + 1 + 2x = _____

x + 5 + x + 2 = _____

PRACTICE

1. Aoife has 3 bags and Ben has 5 bags, with x cubes in every bag: 3x + 5x. Write it as one term. _____
2. You have 5 bags, 2 more bags and 4 loose cubes: 5x + 2x + 4. Write it as a tidy expression. _____
3. You have 8 bags, one more bag and 2 loose cubes: 8x + x + 2. Write it as a tidy expression. _____
4. You have 3 bags, 5 loose cubes and 4 more bags: 3x + 5 + 4x. Write it as a tidy expression. _____
5. You have 5 bags, 2 loose cubes, one more bag and 4 more loose cubes: 5x + 2 + x + 4. Write it as a tidy expression.

ALWAYS, SOMETIMES, NEVER

Always, sometimes or never true? Write A, S or N.

a. 3x and 4x can be added together because they are like terms. ☐

b. Plain numbers like 2 and 5 are like terms with each other. ☐

c. 4x + 3 simplifies to 7x. ☐

d. When you add two terms, you get one term. ☐