

## REVIEW SET 7A

1 Suppose a peach tree has  $p$  peaches, and 8 peaches are picked from the tree. Write an expression for the number of peaches that are still on the tree.

2 Which one of these algebraic expressions is written in correct product notation?

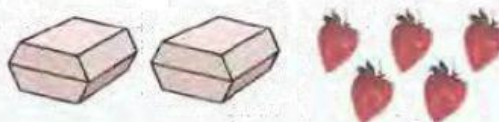
- A**  $4ba$       **B**  $a \times b \times 4$       **C**  $ab4$       **D**  $4 \times a \times b$       **E**  $4ab$

3 **a** How many terms are in the expression  $4x^3 + 6x^2 + 4x + 1$ ?

**b** State the coefficient of  $y$  in  $2x^2 + 3xy - 7y$ .

4 Suppose we have 2 punnets with strawberries in them, plus 5 strawberries left over.

Write an expression for the total number of strawberries if Mario has put in each punnet:



- a** 4 strawberries      **b** 7 strawberries      **c**  $s$  strawberries.

5 Find the like terms in the following:

**a**  $2x^2 - 4x + 3 + 3x^2 - 6x$

**b**  $5a - 3b + a - 2b + 1$

**c**  $3c - c^2 + 3c + 2$

**d**  $2e + ef - 4e + 2ef + 2f$

6 Simplify, if possible, by collecting like terms:

**a**  $7x + 5x + 5$

**b**  $2p + 1 + 3p - 3$

**c**  $3x - 5y + 5x + 5y$

**d**  $-7c + 5d^2 + cd + 4c$

7 Write in index form:

**a**  $k \times k \times k$

**b**  $5 \times m \times m \times n$

**c**  $7 \times a \times a + a \times b \times b$

8 Evaluate:

**a**  $4x + 3$  when  $x = 6$

**b**  $7(m - 5)$  when  $m = 9$

9 Simplify:

**a**  $5p \times 7$

**b**  $2f \times 4f$

**c**  $9s \times 4s^2$

10 If  $a = -2$ ,  $b = 5$ , and  $c = -3$ , evaluate:

**a**  $abc$

**b**  $5a - 7b$

**c**  $3(2c - 3b)$