

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 $3(2c - 3b)$

