GERAK GEMPUR 3

Rumus Algebra
Algebraic Formulae

BAHAGIAN A

1. Puan Rosita perlu membayar sebanyak RMz untuk x batang pen biru dan y batang pen merah yang dibelinya. Setiap pen biru dan pen merah itu masing-masing berharga RM1.60 dan RM1.90.
Puan Rosita needs to pay a total of RMz *for x blue pens and y red pens that she bought. The price of each blue pen and red pen are* RM1.60 *and* RM1.90 *respectively.*

Antara berikut, rumus algebra yang manakah mewakili situasi di atas?
Which of the following algebraic formula represents the above situation?

A $z = 1.9x + 1.6y$
B $z = 1.9x - 1.6y$
C $z = 1.6x + 1.9y$
D $z = 1.6x - 1.9y$

2. Puan Mona membeli p helai baju kemeja dan q helai blaus. Harga sehelai baju kemeja ialah RM65 dan harga sehelai blaus ialah RM50. Beza antara harga baju kemeja dan blaus yang dibeli oleh Puan Mona ialah RMw.
Puan Mona buys p shirts and q blouses. The price of shirt is RM65 *and the price of a blouse is* RM50. *The difference in price between shirts and blouses bought by Puan Mona is* RMw.

Antara berikut, rumus algebra yang manakah mewakili situasi di atas?
Which of the following algebraic formula represents the above situation?

A $w = 65p + 50q$ **B** $w = 65p - 50q$
C $w = 50p + 65q$ **D** $w = 50p - 65q$

3. Diberi $a = b - cd$, ungkapkan b sebagai perkara rumus.
Given $a = b - cd$, *express b as the subject of the formula.*

A $b = a - cd$
B $b = a + cd$
C $b = -a - cd$
D $b = -a + cd$

4. Diberi $3e = \frac{7f}{g}$, ungkapkan g sebagai perkara rumus.
Given $3e = \frac{7f}{g}$, *express g as the subject of the formula.*

A $g = \frac{7f}{3e}$ **B** $g = \frac{7ef}{3}$
C $g = \frac{3e}{7f}$ **D** $g = \frac{3ef}{7}$

5. Jika $j = 2k + 7$, cari nilai j apabila $k = -1$.
If $j = 2k + 7$, *find the value of j when* $k = -1$.

A -5
B -1
C 5
D 9

6. Diberi $8y = 3z^2 - 3$, cari nilai y apabila $z = -3$.
Given $8y = 3z^2 - 3$, *find the value of y when* $z = -3$.

A 2 **B** 3
C 4 **D** 6

7. Diberi $\sqrt{5a} = 9b - 2c$, cari nilai b apabila $c = 4$ dan $a = 20$.
Given $\sqrt{5a} = 9b - 2c$, *find the value of b when* $c = 4$ *and* $a = 20$.

A -2 **B** -1
C 1 **D** 2

LIVEWORKSHEETS