Algebraic Expressions and Linear Equations in One Variable

Ungkapan Algebra dan Persamaan Linear dalam Satu Pemboleh Ubah

Form 1 / Tingkatan 1 | KSSM | Time / Masa: 40 min | Total marks: 16

Name / Nama: Class / Kelas: Date / Tarikh: / 16

Section A · Multiple Choice — 5 × 1 = 5 marks

Choose the correct answer and write A, B, C or D in the box.
Pilih jawapan yang betul dan tulis A, B, C atau D dalam kotak.

1. Simplify $5x + 3x - 2x$
Permudahkan $5x + 3x - 2x$
A. $4x$ **B.** $6x$ **C.** $6x^2$ **D.** $10x$

2. If $x = 4$, what is the value of $3x - 5$?
Jika $x = 4$, berapakah nilai $3x - 5$?
A. 2 **B.** 7 **C.** 12 **D.** 17

3. Solve $2x + 7 = 19$
Selesaikan $2x + 7 = 19$
A. $x = 4$ **B.** $x = 6$ **C.** $x = 12$ **D.** $x = 13$

4. Expand $3(2y - 4)$
Kembangkan $3(2y - 4)$
A. $6y - 4$ **B.** $5y - 12$ **C.** $6y - 12$ **D.** $6y + 12$

5. Which of the following is a like term of $4ab$?
Antara berikut, yang manakah sebutan serupa bagi $4ab$?
A. $4a$ **B.** $4b$ **C.** $-7ab$ **D.** ab^2

Section B · Fill in the Blanks — 8 × 1 = 8 marks

Fill in the blanks with the correct answer.
Isi tempat kosong dengan jawapan yang betul.

1. Simplify $7m + 4n - 3m + 2n$
Permudahkan $7m + 4n - 3m + 2n$

2. Solve $x/3 = 5$. $x =$ ___
Selesaikan $x/3 = 5$. $x =$ ___

3. Solve $5x - 8 = 27$. $x =$ ___
Selesaikan $5x - 8 = 27$. $x =$ ___

4. Find the value of $2p^2$ when $p = 3$.
Cari nilai $2p^2$ apabila $p = 3$.

5. Expand and simplify $2(x + 5) + 3x$
Kembangkan dan permudahkan $2(x + 5) + 3x$

6. Factorise $6x + 9$
Faktorkan $6x + 9$

7. Solve $4(x - 2) = 12$. $x =$ ___
Selesaikan $4(x - 2) = 12$. $x =$ ___

8. Write an expression: subtract 7 from 3 times y
Tulis satu ungkapan: tolak 7 daripada 3 kali ganda y

Section C · Word Problems — 3 × 1 = 3 marks

Solve the following problems. Write your answer in the box.
Selesaikan masalah berikut. Tulis jawapan anda dalam kotak.

1. Hafiz is x years old. His father's age is 3 times his age. Their total age is 48. Find x.
Hafiz berumur x tahun. Umur bapanya 3 kali umurnya. Jumlah umur mereka ialah 48 tahun. Cari x.

2. A nasi lemak costs RM3 and a drink RM2. Write the cost of n nasi lemak and 4 drinks.
Sebungkus nasi lemak berharga RM3 dan segelas air RM2. Tulis kos bagi n nasi lemak dan 4 gelas air.

3. The perimeter of a square is $4x$ cm. If the perimeter is 36 cm, find the length of one side.
Perimeter sebuah segi empat sama ialah $4x$ cm. Jika perimeternya 36 cm, cari panjang satu sisi.

LIVEWORKSHEETS