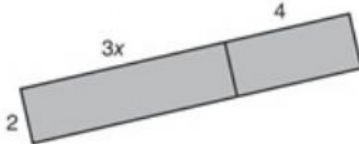


FACTORISATION & ALGEBRAIC FRACTIONS

Student's name : _____

- 1 Lengkapi langkah kerja berikut berdasarkan jubin algebra untuk menerangkan maksud kembangan.

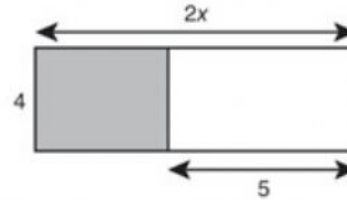
(a)



Luas kawasan berlorek

$$\begin{aligned}
 &= 2(\square + \square) \\
 &= 2 \times \square + 2 \times \square \\
 &= \square + \square
 \end{aligned}$$

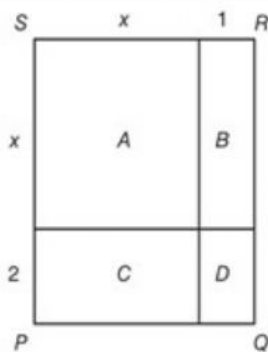
(b)



Luas kawasan berlorek

$$\begin{aligned}
 &= 4(\square - \square) \\
 &= 4 \times \square - 4 \times \square \\
 &= \square - \square
 \end{aligned}$$

2.



(b) Lengkapi.

$$\begin{aligned}
 \text{Luas } PQRS &= (x + \square)(\square + 1) \\
 &= x^2 + \square + 2x + \square \\
 &= x^2 + \square x + \square
 \end{aligned}$$

(c) Lengkapi kembangan yang berikut.

$$(2h + 3)(5k - 4)$$

$$\begin{aligned}
 &= 2h \times \square - 2h \times \square + \square \times 5k - \square \times 4 \\
 &= \square - \square h + \square k - \square
 \end{aligned}$$

(a) Berdasarkan rajah di atas, tulis

(i) luas A = $\square$ (iii) luas C = $\square$

(ii) luas B = $\square$ (iv) luas D = $\square$

3. Lengkapi langkah-langkah kerja yang berikut.

$$(8p - 3)(8p + 3r) - 9r(p - r)$$

$$\begin{aligned}
 &= (\square)^2 - (\square)^2 - \square \times p \square 9r^2 \\
 &= \square p^2 - \square r^2 - \square pr \square 9r^2 \\
 &= \square - \square
 \end{aligned}$$

4. $(2f + 3h)^2 - 2(3f - 2h)^2 =$

A $-14f^2 + 36fh + h^2$

B $-5f^2 + 36fh - h^2$

C $-22f^2 - 12fh - h^2$

D $-14f^2 - 12fh + h^2$