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Pusat Tuisyen Skor Impian



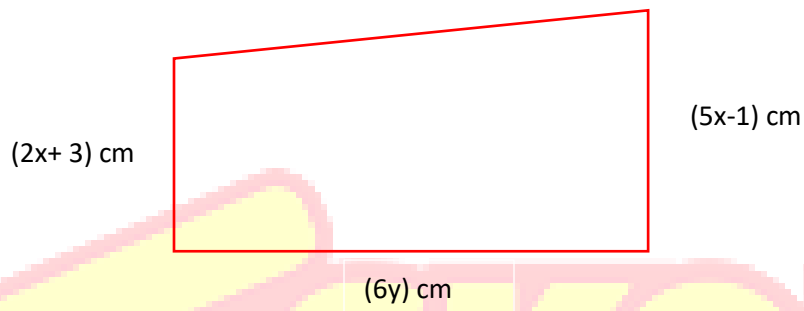
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Bab 3: Rumus Algebra

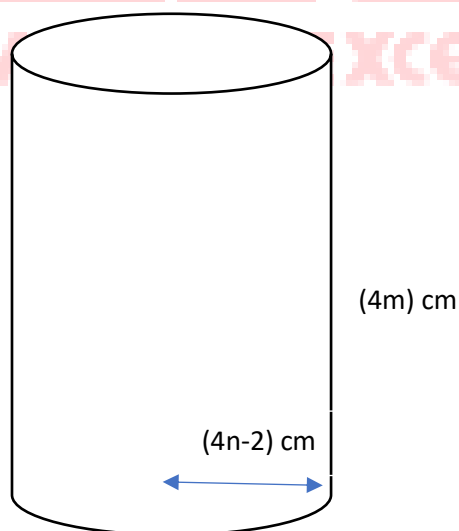
Chapter 3: Algebraic Formulae

**1- Bentuk satu rumus berdasarkan pernyataan yang diberikan.
Form a formula based on statement given.**

- a) Luas trapezium ialah $B \text{ cm}^2$.
The area of trapezium is $B \text{ cm}^2$.**

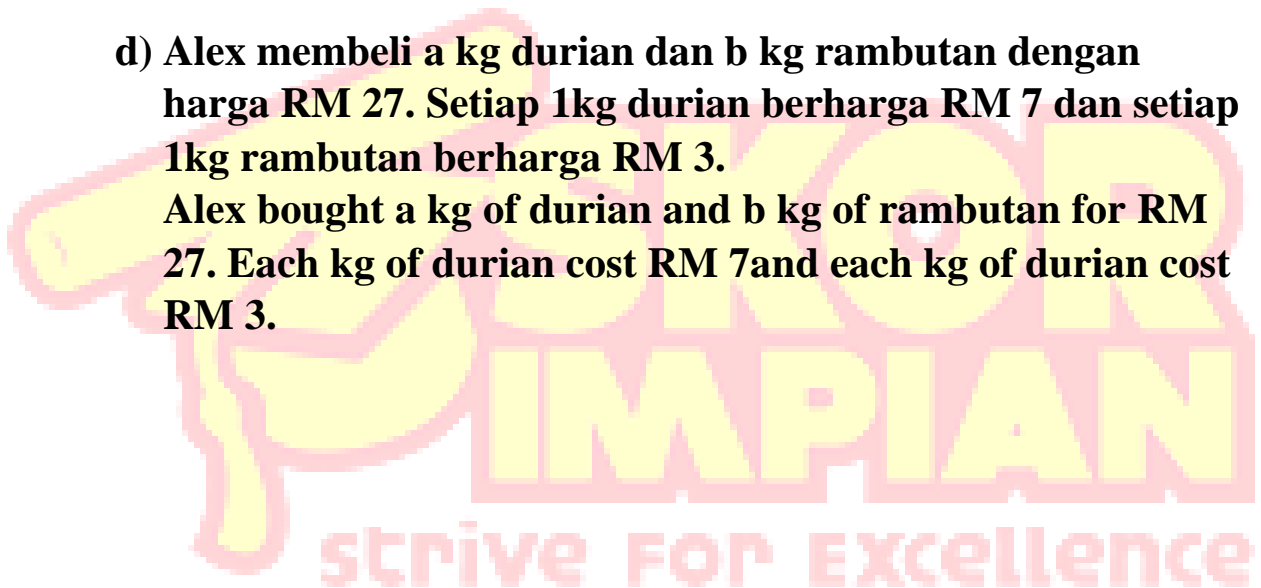


- b) Isipadu silinder ialah $A \text{ cm}^3$
The volume of cylinder is $A \text{ cm}^3$**



- c) Hasil darab p dan $p + 5$ ialah 230
The product of p and $p + 5$ is 230**

- d) Alex membeli a kg durian dan b kg rambutan dengan harga RM 27. Setiap 1kg durian berharga RM 7 dan setiap 1kg rambutan berharga RM 3.
Alex bought a kg of durian and b kg of rambutan for RM 27. Each kg of durian cost RM 7 and each kg of rambutan cost RM 3.**



2- Kenal pasti perkara rumus bagi setiap persamaan yang berikut.

Identify the subject of formula for each of the following equations.

a) $V = \frac{1}{3}\pi r^2 h$

b) $m = \frac{pq}{p+q}$

c) $y = mx + c$

d) $n = \frac{35-2m}{p}$

e) $y = px^2$



3- Ungkapkan m sebagai perkara rumus bagi setiap persamaan berikut.

Express m as the subject for each of the following equations.

$m + 8 = p$	$5m - 9 = 21$
$\frac{m}{9} = 8$	$\frac{m}{4} = 8 + p$
$\frac{m + 4}{a} = 3c$	$my - m = \frac{1}{4}n$

4- Ungkapkan a sebagai perkara rumus bagi setiap persamaan berikut.

Express a as the subject for each of the following equations.

$25a^2 + 2 = p$	$\sqrt{a} - 9 = 8b$
$\left(\frac{a}{3}\right)^2 = 4n$	$a^2 - 30 = 34$
$\sqrt{\frac{a+4}{6}} = 3c$	$p(a+2)^2 = C$

5- Cari nilai bagi pemboleh ubah yang berikut

Find the values of following variable

**a) Diberi $2m = n^2 + 3p$, cari nilai m jika $n = 4$ dan $p = 2$.
Given $2m = n^2 + 3p$, find value of m if $n = 4$ and $p = 2$.**

**b) Diberi $p^2 - \frac{k}{\sqrt{n}} = 10u$, cari nilai p jika $n = 12$ dan $u = 6$.
Given $p^2 - \frac{k}{\sqrt{n}} = 10u$, find value of p if $n = 12$ and $u = 6$.**

**c) Diberi $b = 3k^2m$, cari nilai m jika $b = 6$ dan $k = 4$.
Given $b = 3k^2m$, find value of p if $b = 6$ and $k = 4$.**

6- Selesaikan masalah berikut

Solve the following problem

Isipadu $V \text{ cm}^3$ bagi sebuah kon dengan jejari $j \text{ cm}$ dan ketinggian $t \text{ cm}$ diberikan oleh rumus $V = \frac{1}{3} \pi j^2 t$.

Volume of cone $V \text{ cm}^3$ with radius $r \text{ cm}$ and height $h \text{ cm}$ is given by the formula $V = \frac{1}{3} \pi r^2 h$.

i. Ungkapkan j dalam sebutan V dan h .

Express r in terms of V and h

ii. Hitung nilai r apabila $V = \frac{4400}{21} \text{ cm}^3$ dan $t = 8 \text{ cm}$.

Find the value of r when $V = \frac{4400}{21} \text{ cm}^3$ and $h = 8 \text{ cm}$

