GERAK GEMPUR 3

Rumus Algebra
Algebraic Formulae

BAHAGIAN A

1. Diberi $a = \sqrt{2c} - 7$, ungkapkan c sebagai perkara rumus.
Given $a = \sqrt{2c} - 7$, express c as the subject of the formula.

A $c = \left(\frac{a+7}{2}\right)^2$ **B** $c = \frac{(a+7)^2}{2}$

C $c = \frac{(a-7)^2}{2}$ **D** $c = \frac{\sqrt{(a+7)}}{2}$

2. Diberi $3u = \frac{5}{v+1}$, ungkapkan v sebagai perkara rumus.
Given $3u = \frac{5}{v+1}$, express v as the subject of the formula.

A $v = \frac{4}{3u}$ **B** $v = \frac{5}{3u}$

C $v = \frac{5}{3u} + 1$ **D** $v = \frac{5}{3u} - 1$

3. Jika $q = 2p^2 - 11$, cari nilai p apabila $q = -3$.
If $q = 2p^2 - 11$, find the value of p when $q = -3$.

A $\sqrt{7}$
B 2
C 4
D 8

4. Diberi $\frac{1}{s} + \frac{1}{t} = \frac{1}{u}$, cari nilai s apabila $t = 12$ dan $u = 6$.
Given $\frac{1}{s} + \frac{1}{t} = \frac{1}{u}$, find the value of s when $t = 12$ and $u = 6$.

A 12
B 10
C 9
D 6

5. Jika $hp = \frac{p-h}{2}$, cari nilai h apabila $p = 4$.
If $hp = \frac{p-h}{2}$, find the value of h when $p = 4$.

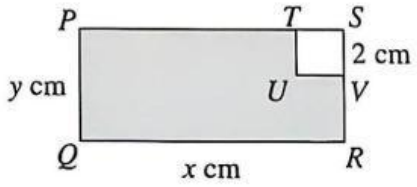
A $\frac{2}{3}$ **B** $\frac{5}{9}$

C $\frac{4}{9}$ **D** $\frac{1}{9}$

6. Umur Puan Rozi adalah empat kali umur anaknya, iaitu u tahun. Hasil tambah umur mereka enam tahun yang lepas ialah v tahun. Ungkapkan v dalam sebutan u.
Puan Rozi's age is four times her son's age which is u years old. Their total age six years ago was v years. Express v in terms of u.

A $v = 5u - 6$
B $v = 5u + 6$
C $v = 5u - 12$
D $v = 5u + 12$

7. Rajah di bawah menunjukkan sebuah segi empat tepat $PQRS$ dan sebuah segi empat sama $STUV$.
The diagram shows a rectangle PQRS and a square STUV.



Jika L cm^2 ialah luas bagi kawasan yang berlorek, maka
If L cm^2 is the area of the shaded region, then

A $L = 4xy$
B $L = xy - 8$
C $L = xy - 6$
D $L = xy - 4$