

BAB 2 : PEMFAKTORAN DAN PECAHAN ALGEBRA

- 16 (a) Tuliskan faktor sepunya terbesar bagi ungkapan algebra berikut.
Write the highest common factor for the following algebraic expressions.

[2 markah/ marks]

Jawapan/ Answer:

(i)	$4pq, 12p^2, -30q^2$	
(ii)	$24x^2y^2, 3xyz, 12xy^2z^2$	

- (b) Lengkapkan operasi berikut.
Complete the following operation.

[2 markah/ marks]

Jawapan/ Answer:

$$6p(3q - 5p) - 9pq = \boxed{} - 30p^2 - 9pq$$

$$= -30p^2 + \boxed{}$$

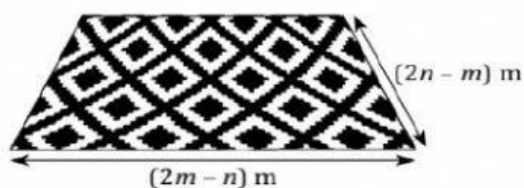
$$= -3p(\boxed{})$$



Tip Cemerlang

Kemaskan ungkapan dengan menyelesaikan sebutan serupa.
Tidy the expression by solving the like terms.

- 17 (a) Rajah 4 menunjukkan panjang dan lebar permaidani.
Diagram 4 shows the length and width of a carpet.



Rajah 4/ Diagram 4

Isi petak kosong dengan jawapan yang betul.

Fill in the boxes with the correct answer.

[2 markah/ marks]

Jawapan/ Answer:

$$= (2m - n)(\boxed{})$$

$$= \boxed{} - 2m^2 - 2n^2 + mn$$

$$= (\boxed{}) m^2$$

- (b) Lengkapkan operasi berikut.
Complete the following operation.

[2 markah/ marks]

Jawapan/ Answer:

$$\frac{x^2 - 16}{y^2 - 81} \div \frac{3x - 12}{y^2 - 9y}$$

$$= \frac{(x - 4)(x + 4)}{(y - 9)(y + 9)} \times \frac{\boxed{}}{3(x - 4)}$$

$$= \frac{\boxed{} + 4y}{3y + 27}$$

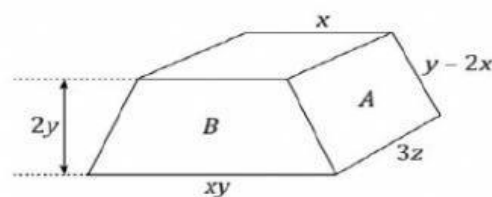
- 18 (a) Tandakan (✓) bagi ungkapan yang betul dan (✗) bagi ungkapan yang salah.
Mark (✓) for the correct expressions and (✗) for the incorrect expressions.

[2 markah/ marks]

Jawapan/ Answer:

$3x(y + 5z^2) = 3xy + 5z^2$	
$x(x + 8) + 15 = (x + 5)(x + 3)$	

- (b) Rajah 5 menunjukkan sebuah prisma dengan keratan rentas berbentuk trapezium.
Diagram 5 shows a prism with cross section of a trapezium.



Rajah 5/ Diagram 5

Nyatakan A dan B bagi ungkapan untuk luas permukaan dengan betul.

State A and B for the expressions of the surface area correctly.

[2 markah/ marks]

Jawapan/ Answer:

$xy + xy^2$	
$2xy$	
$3yz - 6xz$	
$3yz + 6xz$	