

# Penyelesaian Lengkap

## PRAKTIS 3

### Bahagian A

1  $p = (3 \times x) + (7 \times y)$   
 $p = 3x + 7y$

Jawapan/Answer: C

2  $T = m + (m - 5)$   
 $= 2m - 5$

Jawapan/Answer: A

3  $A = \text{Tapak} \times \text{Tinggi}$   
 $A = \text{Base} \times \text{Height}$

$$= x \times y$$

$$= xy$$

Jawapan/Answer: B

4  $A = \frac{1}{2} \times (x + y - 2 + 3x - 2y + 7) \times 16$

$$= 8(4x - y + 5)$$

Jawapan/Answer: D

5  $x + 2y + 10^\circ + 65^\circ = 180^\circ$

$$x = 180^\circ - 75^\circ - 2y$$

$$y = 105^\circ - 2y$$

Jawapan/Answer: B

6  $p^2 = m^2 + (2n)^2$

$$\sqrt{p^2} = \sqrt{m^2 + 4n^2}$$

$$p = \sqrt{m^2 + 4n^2}$$

Jawapan/Answer: C

7  $L = \frac{1}{2} \times 2x \times (p + q)$

$$= x(p + q)$$

Jawapan/Answer: A

8  $a = \frac{2b}{2b + 3c}$

$$a(2b + 3c) = 2b$$

$$2ab + 3ac = 2b$$

$$3ac = 2b - 2ab$$

$$3ac = 2b(1 - a)$$

$$b = \frac{3ac}{2(1 - a)}$$

Jawapan/Answer: D

9  $3k + \frac{2m}{3n} = 2m$

$$\times 3n, \quad 9kn + 2m = 6mn$$

$$9kn = 6mn - 2m$$

$$9kn = 2m(3n - 1)$$

$$m = \frac{9kn}{2(3n - 1)}$$

Jawapan/Answer: C

10  $(\sqrt{8 + k})^2 = (3p)^2$

$$8 + k = 9p^2$$

$$k = 9p^2 - 8$$

Jawapan/Answer: B

11  $3p - \frac{2}{q} = \frac{m}{q} - 5$

$$\times q, \quad 3pq - 2 = m - 5q$$

$$3pq + 5q = m + 2$$

$$q(3p + 5) = m + 2$$

$$q = \frac{m + 2}{3p + 5}$$

Jawapan/Answer: A

12  $p = 5q - 4r$

$$= 5(6) - 4(-2)$$

$$= 30 + 8$$

$$= 38$$

Jawapan/Answer: C

13  $P = 2(x + y + 2)$

$$42 = 2(7 + y + 2)$$

$$y + 9 = 21$$

$$y = 12$$

Jawapan/Answer: B

14 Luas bahagian tertinggal

Area of remaining part

$$= (7p \times 4q) - (3p \times q)$$

$$= 25pq$$

$$= 25(3)(4)$$

$$= 300$$

Jawapan/Answer: D

### Bahagian B

1 (a) ✓ (b) ✗ (c) ✗ (d) ✓

2 (a) F (b) a (c) V (d) E

3  $A = 45$

$$\frac{1}{2} \times (x + 2y + 1) \times 6 = 45$$

$$3(x + 2y + 1) = 45$$

$$x + 2y + 1 = 15$$

$$x + 2y = 14$$

### Bahagian C

1 (a) (i)  $h = \frac{3}{4}g^2 - f$

$$f = \frac{3}{4}g^2 - h$$

(ii)  $f = \frac{3}{4}(-8)^2 - 5$

$$= \frac{3}{4}(64) - 5$$

$$= 48 - 5$$

$$= 43$$

(b) Jumlah luas/Total area =  $2L$

$$2x(y + 5) + \frac{1}{2}(6x)(y + 4) = 2L$$

$$2xy + 10x + 3x(y + 4) = 2L$$

$$2xy + 10x + 3xy + 12x = 2L$$

$$5xy + 22x = 2L$$

$$x(5y + 22) = 2L$$

$$x = \frac{2L}{5y + 22}$$

(c) (i)  $L = (2g \times g) + \left(\frac{1}{2} \times g \times h\right)$

$$= 2g^2 + \frac{1}{2}gh$$

(ii)  $L = 2(4)^2 + \frac{1}{2}(4)(7)$

$$= 2(16) + 14$$

$$= 32 + 14$$

$$= 46$$

2 (a) (i)  $P = a + a + a$

$$= 3a$$

(ii)  $15 = 3a$

$$a = 5$$

(b) (i)  $A = a \times b$

$$= ab$$

(ii)  $a + b = 14$

$$a = 5, 5 + b = 14$$

$$b = 14 - 5$$

$$= 9$$

(iii)  $A = ab$

$$= 5 \times 9$$

$$= 45$$

(c) (i) Jumlah luas/Total area =  $55.83$

$$45 + T = 55.83$$

$$T = 55.83 - 45$$

$$= 10.83 \text{ m}^2$$

(ii) Luas segi tiga  $KLM$ /Area of triangle  $KLM$

$$= 10.83$$

$$\frac{1}{2} \times 5 \times t = 10.83$$

$$t = 10.83 \times \frac{2}{5}$$

$$= 4.33 \text{ m}$$