

Penyelesaian Lengkap

PRAKTIK 6

Bahagian A

1 Jawapan/Answer: B

$$2(2x + 3 + x) = 41$$

$$2(3x + 3) = 41$$

$$6x + 6 = 41$$

Jawapan/Answer: D

3 $3(2 - p) = 12$

$$2 - p = \frac{12}{3}$$

$$-p = 4 - 2$$

$$p = -2$$

Jawapan/Answer: A

4 $\frac{t+4}{8-t} = 2$

$$t + 4 = 2(8 - t)$$

$$t + 4 = 16 - 2t$$

$$t + 2t = 16 - 4$$

$$3t = 12$$

$$t = \frac{12}{3}$$

$$t = 4$$

Jawapan/Answer: D

5 Jawapan/Answer: D

6 Jawapan/Answer: C

7 $3x + 4y = 20$

$$3x + 4(2) = 20$$

$$3x + 8 = 20$$

$$3x = 20 - 8$$

$$x = \frac{12}{3}$$

$$x = 4$$

Jawapan/Answer: C

8 A: $2(-2) - (-11) = -4 + 11 = 7$

B: $2(2) - (-3) = 4 + 3 = 7$

C: $2(4) - (-1) = 8 + 1 = 9$

D: $2(5) - 3 = 10 - 3 = 7$

Jawapan/Answer: C

9 A: $5(2) + 3(4) = 10 + 12$

$$= 22$$

Jawapan/Answer: A

10 $4x - 3y = 13$... ①

$$5x + y = 21$$
 ... ②

Daripada/From ②, $y = 21 - 5x$

Gantikan ② ke dalam ①,

Substitute ② into ①,

$$4x - 3(21 - 5x) = 13$$

$$4x - 63 + 15x = 13$$

$$19x = 13 + 63$$

$$19x = 76$$

$$x = 4$$

Jawapan/Answer: C

11 $x + y = 20$... ①

$$y = 2x + 5$$
 ... ②

Gantikan ② ke dalam ①,

Substitute ② into ①,

$$x + 2x + 5 = 20$$

$$3x = 15$$

$$x = 5$$

Gantikan $x = 5$ ke dalam ②,

Substitute $x = 5$ into ②,

$$y = 2(5) + 5$$

$$y = 15$$

Jawapan/Answer: C

Bahagian B

1 (a) $-8 - 3 = -11$ [X] (b) $3x + x = 4x$ [X]

(c) $2p + 3p = 5p$ [✓] (d) $-2x - 3x = -5x$ [✓]

2

$2x^2 + 3 = 5$	$6y - 2x = 5$	$\frac{3}{x} = 4x + 2$
$5p + 2 = 3p$	$m = n$	$3ab + 3a = 5$
$\frac{2}{x+3} = 3y$	$4u = \frac{1}{v}$	$\frac{3x+2}{3-x} = 4$

3 (a) $5x - 3 = 9 + 2x$

$$3x = 12$$

$$x = 4$$

(b) $20 - x = 4 - 5x$

$$4x = -16$$

$$x = -4$$

(c) $4x + 4 = x - 8$

$$3x = -12$$

$$x = -4$$

(d) $3x + 4 = 4x$

$$x = 4$$

4 $4x - 5y = 6$... ①

$$4x + y = 18$$
 ... ②

$$\textcircled{2} - \textcircled{1}, 6y = 12$$

$$y = 2$$

$$4x = 16$$

$$x = 4$$

Bahagian C

1 (a) Panjang/Length = x cm

Lebar/Width = $(2x - 9)$ cm

$$2x + 2(2x - 9) = 30$$

$$2x + 4x - 18 = 30$$

$$6x - 18 = 30$$

$$6x = 48$$

$$x = 8$$

∴ Panjang/Length = 8 cm

Lebar/Width = $2(8) - 9 = 7$ cm

(b) (i) $5p = 18 + 2p$

$$5p - 2p = 18$$

$$3p = 18$$

$$p = 6$$

(ii) $\frac{t}{5} + 7 = \frac{2}{5} - 2t$

$$\frac{t}{5} \times 5 + 7 \times 5 = \frac{2}{5} \times 5 - 2t \times 5$$

$$t + 35 = 2 - 10t$$

$$11t = -33$$

$$t = -3$$

(c) $3x + x + x - 5 = 65$

$$5x = 65 + 5$$

$$5x = 70$$

$$x = \frac{70}{5}$$

$$x = 14$$

Umur Bazri ialah 14 tahun.

Bazri's age is 14 years old.

2 (a) (i) $3q - 4(-3) = 18$

$$3q = 6$$

$$q = 2$$

(ii) $2(-3) = 4 + 5q$

$$-10 = 4 + 5q$$

$$q = -2$$

(iii) $\frac{3(-3) + 5}{2 - q} = 4$

$$\frac{-9 + 5}{2 - q} = 4$$

$$-4 = 4(2 - q)$$

$$-1 = 2 - q$$

$$-3 = -q$$

$$q = 3$$

(b) $2(2x + 5) + 4x = 100 - 26$

$$4x + 10 + 4x = 74$$

$$8x = 64$$

$$x = 8$$

Harga sebuah buku latihan ialah RM8.

The price of an exercise book is RM8.

(c) $4x - 3y = 21$...①

$$3x + 3y = 42$$
 ...②

$$\text{①} + \text{②}, 7x = 63$$

$$x = 9$$

Gantikan $x = 9$ ke dalam ②,

Substitute $x = 9$ into ②,

$$3(9) + 3y = 42$$

$$3y = 15$$

$$y = 5$$

3 (a) $6x + 5y = 22.5$...①

$$3x + 2y = 10.5$$
 ...②

$$\text{②} \times 2, 6x + 4y = 21$$
 ...③

$$\text{①} - \text{③}, y = 1.5$$

Gantikan $y = 1.5$ ke dalam ②,

Substitute $y = 1.5$ into ②,

$$3x + 2(1.5) = 10.5$$

$$3x = 7.5$$

$$x = 2.5$$

Harga sebatang pen dan sebiji pemadam masing-masing ialah RM2.50 dan RM1.50.

The prices of a pen and an eraser are RM2.50 and RM1.50 respectively.

(b) (i) $x - 4 = \frac{x}{2}$

(ii) $x - 54 = 3 \times 22$

(iii) $p + p - q = 48$

$$2p - q = 48$$

(c) $y - x = 9$...①

$$x + 1 = \frac{y}{2}$$
 ...②

$$\text{②} \times 2, 2x + 2 = y$$
 ...③

Gantikan ③ ke dalam ②,

Substitute ③ into ②,

$$2x + 2 - x = 9$$

$$x = 9 - 2$$

$$x = 7$$

Gantikan $x = 7$ ke dalam ③,

Substitute $x = 7$ into ③,

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

$$y = 16$$