

Penyelesaian Lengkap

PRAKTIS 7

Bahagian A

1 Jawapan/Answer: C

2 $3 < 5 \Rightarrow -3 > -5$

Jawapan/Answer: B

$$3 \frac{1 \times 8}{5 \times 8} = \frac{8}{40}$$

$$\frac{3 \times 5}{8 \times 5} = \frac{15}{40}$$

$$\frac{8}{40} < \frac{15}{40}$$

$$\therefore \frac{1}{5} < \frac{3}{8}$$

Jawapan/Answer: A

4 $3x + 4 > 13$

$$3x > 13 - 4$$

$$3x > 9$$

$$x > 3$$

$$x > 3, \therefore x_{\min} = 4$$

Jawapan/Answer: C

5 $28x + 20(2x) \leq 340$

$$68x \leq 340$$

$$x \leq 5$$

Jawapan/Answer: B

6 $3 - \frac{2}{3}p \geq \frac{p}{2} + 10$

$$3 \times 6 - \frac{2}{3}p \times 6 \geq \frac{p}{2} \times 6 + 10 \times 6$$

$$18 - 4p \geq 3p + 60$$

$$-4p - 3p \geq 60 - 18$$

$$-7p \geq 42$$

$$p \leq -6$$

Jawapan/Answer: D

7 $2 - 3y > 3 - 2y$

$$-3y + 2y > 3 - 2$$

$$-y > 1$$

$$y < -1$$

$$\therefore y = -2$$

Jawapan/Answer: A

8 Jawapan/Answer: A

9 $4 \leq 2 - 2x < 10$

$$4 \leq 2 - 2x \quad 2 - 2x < 10$$

$$2 \leq -2x \quad -2x < 8$$

$$x \leq -1 \quad x > -4$$

$$\therefore -4 < x \leq -1$$

Jawapan/Answer: C

10 $5 < 4 - x \leq 8$

$$5 < 4 - x \quad 4 - x \leq 8$$

$$1 < -x \quad -x \leq 4$$

$$x < -1 \quad x \geq -4$$

$$\therefore -4 \leq x < -1$$

Jawapan/Answer: C

11 $x \geq 4$ dan/and $x < 8$

$$x = 4, 5, 6, 7$$

Jawapan/Answer: A

12 $3 - x < 5$ dan/and $2x - 3 \leq 3$

$$-x < 2 \quad 2x \leq 6$$

$$x > -2 \quad x \leq 3$$

$$\therefore x = -1, 0, 1, 2, 3$$

Jawapan/Answer: B

Bahagian B

1 (a)

$$-2 < -5$$

X

(b)

$$\frac{2}{3} < \frac{7}{9}$$

✓

(c)

$$\frac{1}{3} < \frac{1}{4}$$

X

(d)

$$1 \frac{5}{6} < 1 \frac{8}{9}$$

✓

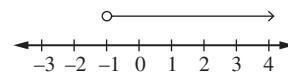
2 (a) $-10 < 0$

(b) $7 < 15$

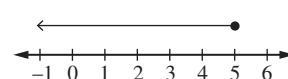
(c) $\frac{3}{100} < \frac{1}{3}$

(d) $-1 \frac{1}{2} < 1 \frac{1}{2}$

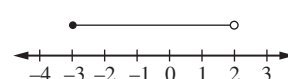
3 (a) $x > -1$



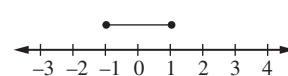
(b) $x \leq 5$



(c) $-3 \leq x < 2$



(d) $-1 \leq x \leq 1$



4 (a) $1 > -3$

(b) $-10 > -4$

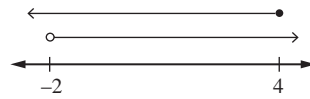
(c) $-2 < 12$

(d) $-4 < -6$

Bahagian C

- 1 (a) (i) $x = \text{markah/marks}$
 $x \geq 50$
 (ii) $v = \text{had laju/speed limit}$
 $v \leq 60$
 (iii) $y = \text{bilangan penumpang}$
number of passengers
 $10 \leq y \leq 40$
- (b) (i) $3 - s > s - 5$
 $-s - s > -5 - 3$
 $-2s > -8$
 $s < 4$
- (ii) $\frac{1}{3}r + 2 \geq 5$
 $\frac{1}{3}r \geq 3$
 $r \geq 9$
- (c) $\frac{2 - 4x}{3} < 2$
 $2 - 4x < 6$
 $-4x < 4$
 $x > -1$
- 2 (a) $-6 < \frac{5x - 7}{2} < 4$
 $-12 < 5x - 7 < 8$
 $-5 < 5x < 15$
 $-1 < x < 3$
- (b) (i) $3x + 5 \geq 29$
 (ii) $3x \geq 24$
 $x \geq 8$
 $\therefore x_{\min} = 8$

(c) $3p + 5 > -1$ dan/and $5 - p \geq 1$
 $3p > -6$ $-p \geq -4$
 $p > -2$ $p \leq 4$



$$\therefore -2 < p \leq 4$$

- 3 (a) (i) $x + 2x \geq 9$
 $3x + 2x \leq 20$
- (ii) $3x \geq 9$ $5x \leq 20$
 $x \geq 3$ $x \leq 4$
 $3 \leq x \leq 4$
 $\therefore x = 3, 4$
- (b) $\frac{k + 5}{3} < 3$ dan/and $5 - 2k \leq 3$
 $k + 5 < 9$ $-2k \leq -2$
 $k < 4$ $k \geq 1$
 $1 \leq k < 4$
 $\therefore k = 1, 2, 3$
- (c) $5 - \frac{2m}{3} \leq 3$ $3m - 8 < 12 - m$
 $-\frac{2m}{3} \leq -2$ $4m < 20$
 $-2m \leq -6$ $m < 5$
 $m \geq 3$
 $\therefore 3 \leq m < 5$