

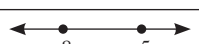
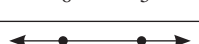


Jawapan

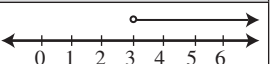
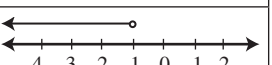
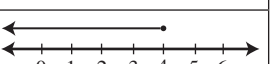
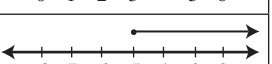
Praktis 7

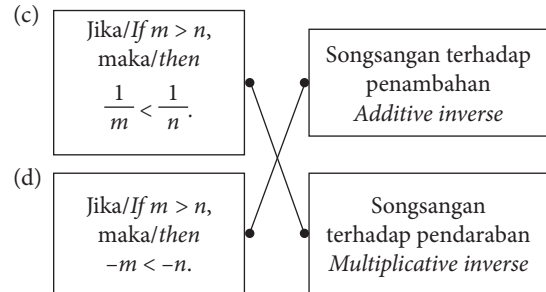
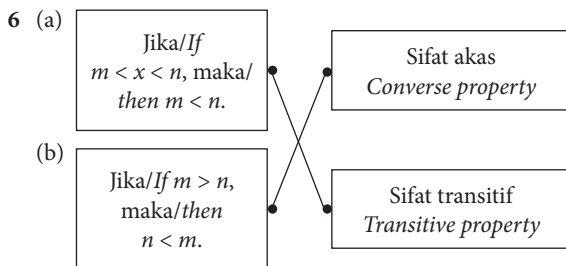
Praktis Formatif

- 1 A Betul/Correct
 B Betul/Correct
 C Salah/Wrong
 D Betul/Correct
 Jawapan/Answer: C

	Garis nombor Number line	Hubungan antara dua nombor Relation between two numbers
(a)		$4 < 6, 6 > 4$
(b)		$-2 < 1, 1 > -2$
(c)		$-8 < -5, -5 > -8$
(d)		$-4 < 0, 0 > -4$

- 3 (a) $-5 < 3$ (b) $-2 > -8$
 4 (a) Palsu/False (c) Benar/True
 (b) Benar/True (d) Palsu/False

	Ketaksamaan Inequality	Garis nombor Number line	
(a)	$x > 3$		✓
(b)	$x \leq -1$		✗
(c)	$4 \geq x$		✓
(d)	$-5 \geq x$		✗



- 7 (a) $>$ (b) $<$ (c) $>$ (d) $<$
 8 (a) ✗ (b) ✓ (c) ✓ (d) ✗

- 9 (a) $3 < 8$
 $3 + 2 < 8 + 2$
 $5 < 10$
 (b) $2 > -4$
 $2 - 5 > -4 - 5$
 $-3 > -9$
 (c) $\frac{5}{9} > \frac{1}{3}$
 $\frac{5}{9} \times 9 > \frac{1}{3} \times 9$
 $5 > 3$
 (d) $-6 < -3$
 $-6 \div (-3) > -3 \div (-3)$
 $2 > 1$

- 10 (a) $h > 5$
 $h + 1 > 5 + 1$
 (b) $m < -3$
 $m - 2 < -3 - 2$
 (c) $-\frac{1}{2}p \leq -4$
 $-\frac{1}{2}p \times (-2) \geq -4 \times (-2)$
 (d) $-3t \geq 27$
 $\frac{-3t}{-3} \leq \frac{27}{-3}$

- 11 $m \geq 80$
 $80 \leq m$
 Jawapan/Answer: D
 12 $y > 150$
 13 (a) Kadar dividen yang dibayar syarikat OWC setiap tahun adalah kurang daripada 8%.
 The rate of dividend paid by Company OWC each year is less than 8%.

- (b) Poligon mempunyai sekurang-kurangnya 3 sisi.
A polygon has at least 3 sides.

14 (a) $-\frac{1}{4}x \geq -2$
 $-\frac{1}{4}x \times (-4) \leq -2 \times (-4)$
 $x \leq 8$

(b) $-\frac{1}{4}x \geq -2$
 $-\frac{1}{4}x \times 4 \geq -2 \times 4$
 $-x \geq -8$

(c) $-\frac{1}{4}x \geq -2$
 $-\frac{1}{4}x + 2 \geq -2 + 2$
 $2 - \frac{1}{4}x \geq 0$

(d) $-\frac{1}{4}x \geq -2$
 $-\frac{1}{4}x \times (-1) \leq -2 \times (-1)$
 $\frac{1}{4}x \leq 2$
 $2 \geq \frac{1}{4}x$

15 (a) $7m < -21$
 $m < -3$

(b) $-\frac{1}{3}k \geq -4$
 $-\frac{1}{3}k \times (-3) \leq -4 \times (-3)$
 $k \leq 12$

(c) $11 \leq 3 - r$
 $r \leq -8$

(d) $3x + 7 > 4$
 $3x > -3$
 $x > -1$

16 $\frac{1}{2}k - 4 < k - 2$
 $\frac{1}{2}k - k < -2 + 4$
 $-\frac{1}{2}k < 2$

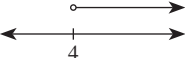
$-\frac{1}{2}k \times (-2) > 2 \times (-2)$
 $k > -4$


Jawapan/Answer: A

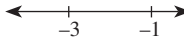
- 17 (a) ✗ (b) ✗
 (c) ✓ (d) ✓

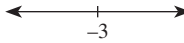
18 $4x - 23 \geq 37$
 $4x \geq 60$
 $x \geq 15$

Nilai x yang terkecil ialah 15.
The smallest value of x is 15.

19 (a) 

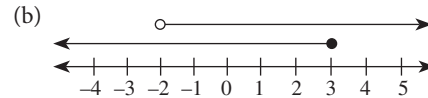
(b) 

(c) 

(d) 

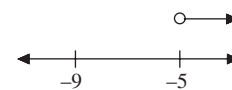
20 (a) (i) $a + 9 > 7$
 $a > -2$

(ii) $2a - 5 \leq 1$
 $2a \leq 6$
 $a \leq 3$



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

21 $-3k < 15$
 $-3k \div (-3) > 15 \div (-3)$
 $k > -5$
 $8k + 3 > 7k - 6$
 $8k - 7k > -6 - 3$
 $k > -9$



Jawapan/Answer: A

22 (a) $-1 \leq \frac{1}{2}(2 - k)$

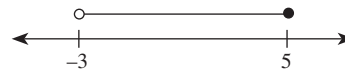
$-2 \leq 2 - k$
 $k \leq 4$
 $2k + 7 < 3(k + 3)$
 $2k + 7 < 3k + 9$
 $2k - 3k < 9 - 7$
 $-k < 2$
 $k > -2$

$\therefore -2 < k \leq 4$

- (b) -1, 0, 1, 2, 3, 4

Praktis Sumatif

1 $-3 < x \leq 5$



Jawapan/Answer: B

2 $2 \leq x$
 $x \geq 2$

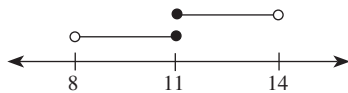
Jawapan/Answer: B

3 $-3 < 6 - x \leq 4$
 $-3 < 6 - x$
 $x < 9$
 $6 - x \leq 4$
 $-x \leq -2$
 $x \geq 2$

$\therefore 2 \leq x < 9$

Jawapan/Answer: A

$$\begin{aligned}
 4 \quad & 7 \leq w - 4 < 10 \\
 & 7 + 4 \leq w < 10 + 4 \\
 & 11 \leq w < 14 \\
 & 19 < 2w + 3 \leq 25 \\
 & 19 - 3 < 2w \leq 25 - 3 \\
 & 16 < 2w \leq 22 \\
 & 8 < w \leq 11
 \end{aligned}$$



Integer $w = 11$

Jawapan/Answer: C

$$\begin{aligned}
 5 \quad & 7 - 2y < 1 \\
 & -2y < -6 \\
 & -2y \div (-2) > -6 \div (-2) \\
 & y > 3
 \end{aligned}$$

Nilai yang terkecil bagi y ialah 4.

The smallest value of y is 4.

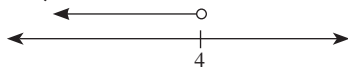
Jawapan/Answer: C

$$\begin{aligned}
 6 \quad & \leftarrow \begin{array}{c} | \quad | \\ 7-3x \quad 1 \end{array} \rightarrow
 \end{aligned}$$

$$\begin{aligned}
 (a) \quad & 7 - 3x < 1 \\
 (b) \quad & -3x < -6 \\
 & -3x \div (-3) > -6 \div (-3) \\
 & x > 2 \\
 \therefore x & = 3, 4, 5, 6, \dots
 \end{aligned}$$

$$\begin{aligned}
 7 \quad & 2k - 3 < 5 \\
 & 2k < 8 \\
 & k < 4 \\
 & k + 4 \leq 14 - 9k \\
 & k + 9k \leq 14 - 4 \\
 & 10k \leq 10 \\
 & k \leq 1
 \end{aligned}$$

Penyelesaian/Solution: $k < 4$



$$8 \quad (a) \quad \frac{1}{2}m + 1 > \frac{5}{8} - \frac{3}{4}m$$

$$\frac{1}{2}m + \frac{3}{4}m > \frac{5}{8} - 1$$

$$\frac{5}{4}m > -\frac{3}{8}$$

$$m > -\frac{3}{8} \left(\frac{4}{5} \right)$$

$$m > -\frac{3}{10}$$

$$\begin{aligned}
 (b) \quad & 5a - 7 \geq 2(4 - a) \\
 & 5a - 7 \geq 8 - 2a \\
 & 7a \geq 15 \\
 & a \geq \frac{15}{7}
 \end{aligned}$$

$$\begin{aligned}
 9 \quad \text{I: } & x + 4 \leq -x \\
 & 2x \leq -4 \\
 & x \leq -2
 \end{aligned}$$

$$\begin{aligned}
 \text{II: } & 2 - x \leq 0 \\
 & -x \leq -2 \\
 & x \geq 2
 \end{aligned}$$

$$\begin{aligned}
 \text{III: } & -\frac{1}{2}x \geq -1 \\
 & x \leq 2
 \end{aligned}$$

$$\begin{aligned}
 \text{IV: } & \frac{x-1}{2} \geq 1 \\
 & x-1 \geq 2 \\
 & x \geq 3
 \end{aligned}$$

$$\begin{aligned}
 \text{V: } & \frac{1}{3} \geq \frac{1}{6}x \\
 & 6 \geq 3x \\
 & 2 \geq x \\
 & x \leq 2
 \end{aligned}$$

$$\begin{aligned}
 \text{VI: } & 2 \geq \frac{x+4}{3} \\
 & 6 \geq x+4 \\
 & 2 \geq x \\
 & x \leq 2
 \end{aligned}$$

$$\begin{aligned}
 \text{VII: } & x \geq 2x - 2 \\
 & -x \geq -2 \\
 & x \leq 2
 \end{aligned}$$

$$\begin{aligned}
 \text{VIII: } & -1 \leq x - 3 \\
 & 2 \leq x \\
 & x \geq 2
 \end{aligned}$$

$$-\frac{1}{2}x \geq -1, \frac{1}{3} \geq \frac{1}{6}x, x \geq 2x - 2, 2 \geq \frac{x+4}{3}$$

$$10 \quad (a) \quad 2(x+17) \leq 52 - x$$

$$\begin{aligned}
 (b) \quad & 2x + 34 \leq 52 - x \\
 & 2x + x \leq 52 - 34 \\
 & 3x \leq 18 \\
 & x \leq 6
 \end{aligned}$$

Nilai x yang terbesar ialah 6.

The largest value of x is 6.

$$\begin{aligned}
 11 \quad & -3 < \frac{4-r}{2} \\
 & -6 < 4-r \\
 & r < 10
 \end{aligned}$$

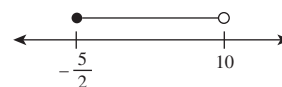
$$\frac{1}{2}(2r+1) \geq -2$$

$$2r+1 \geq -4$$

$$2r \geq -5$$

$$r \geq -\frac{5}{2}$$

$$\therefore -\frac{5}{2} \leq r < 10$$



$$12 \quad (a) \quad (i) \quad -7 < 4x + 1$$

$$-8 < 4x$$

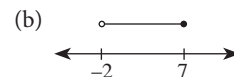
$$-2 < x$$

$$(ii) \quad x - 3 \leq 11 - x$$

$$x + x \leq 11 + 3$$

$$2x \leq 14$$

$$x \leq 7$$



$$-2 < x \leq 7$$