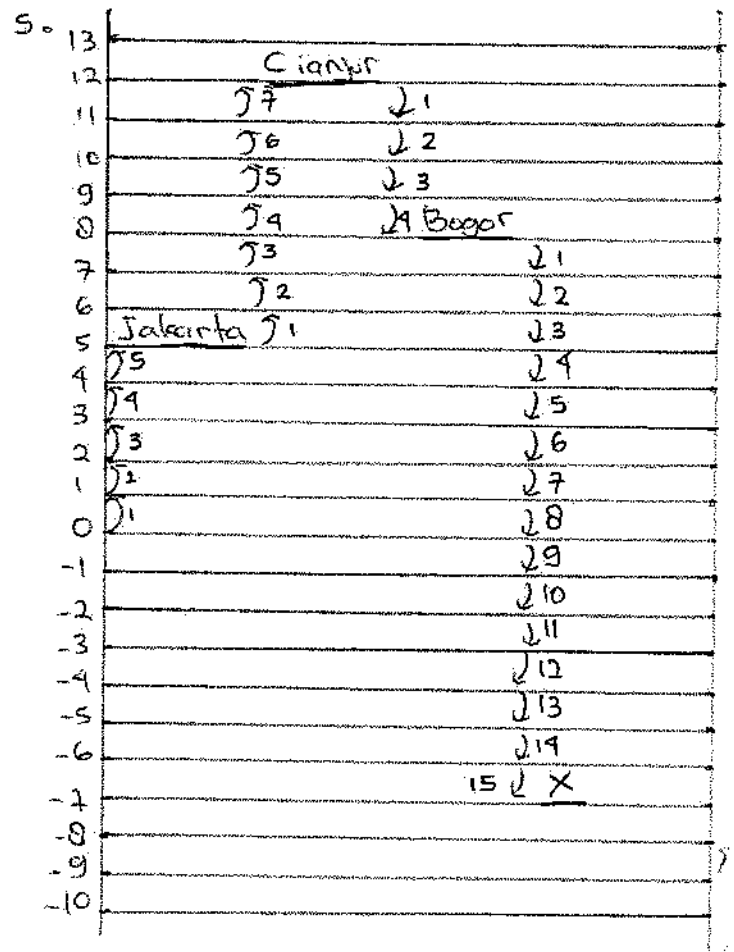
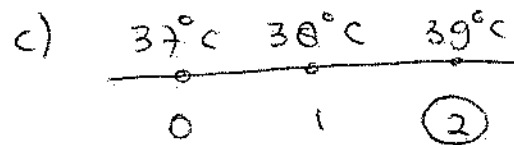
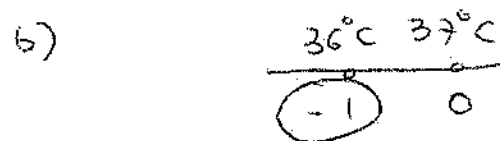
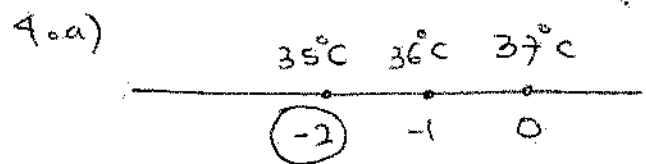
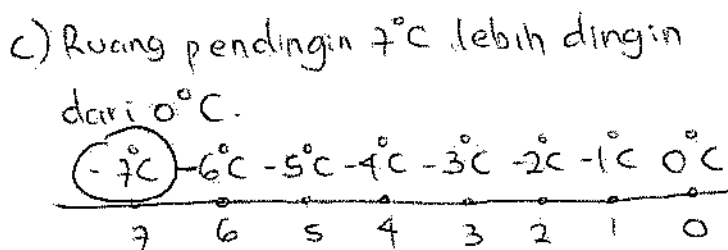
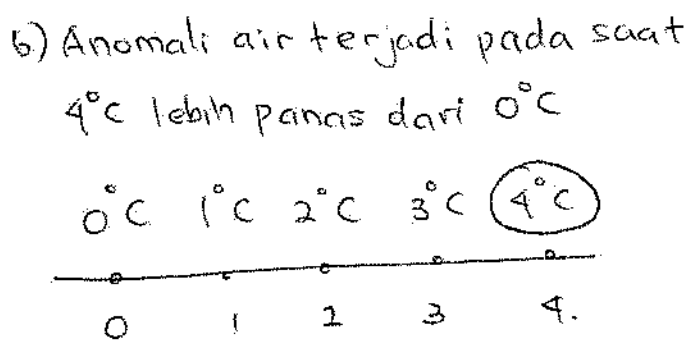
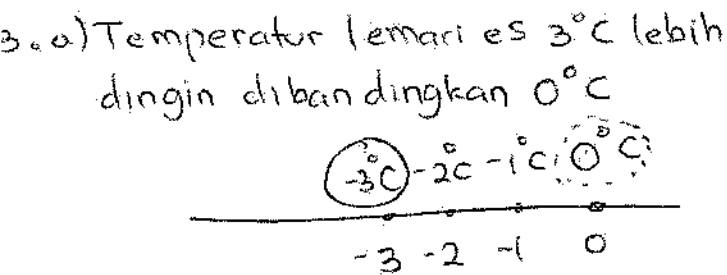
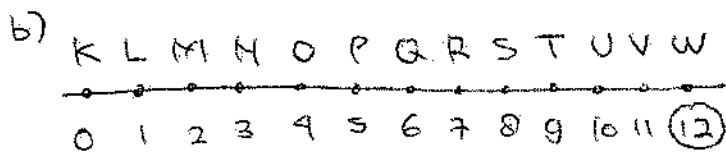
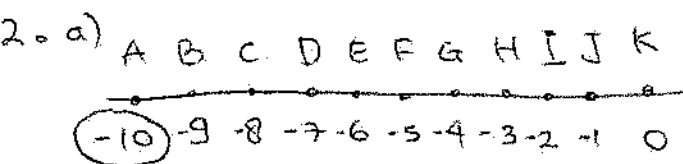
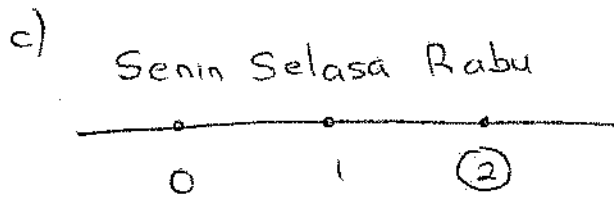
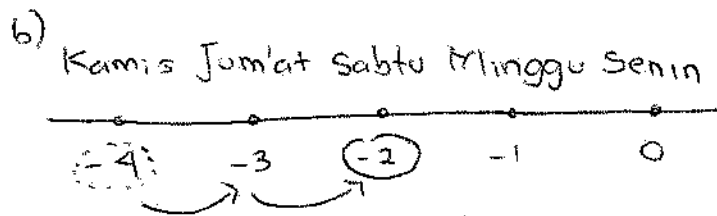
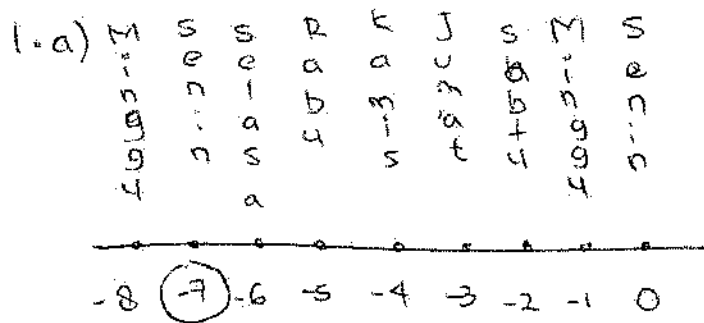


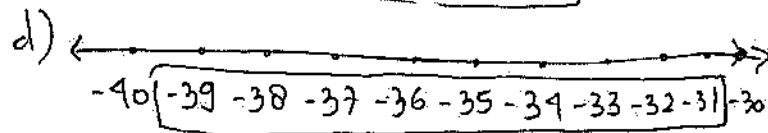
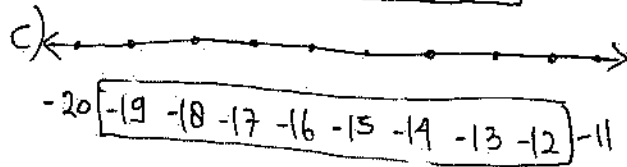
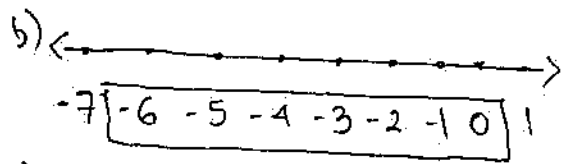
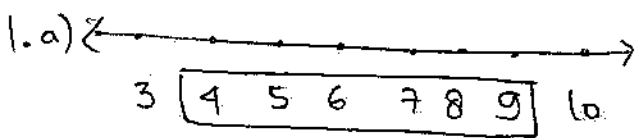
BAB 1

~ UJI PEMAHAMAN HAL 26, 29,
31, 33, 37, LATIHAN SOAL
AKHIR BAB, URAIAN

UJI PEMAHAMAN HAL 4

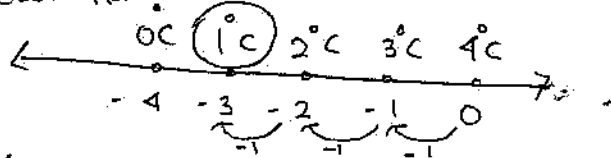


- a) Jakarta berada di ketinggian 5
- b) Cianjur berada di ketinggian 12
- c) Bogor berada di ketinggian 8
- d) Kota X berada di ketinggian -7.

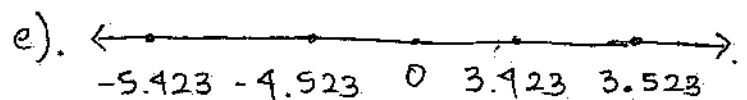
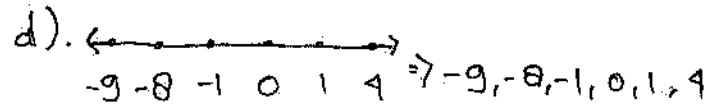
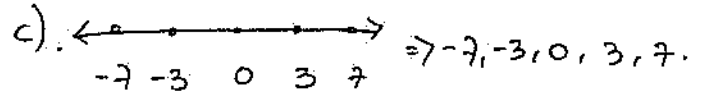
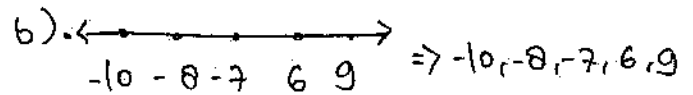
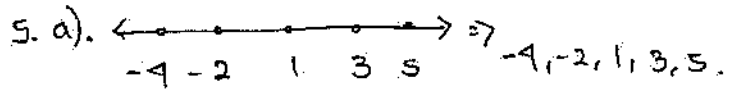
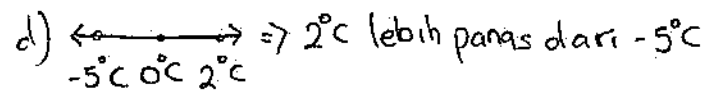
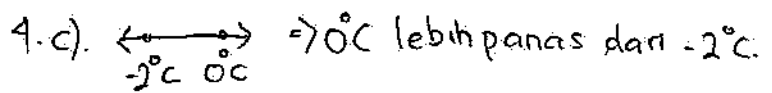
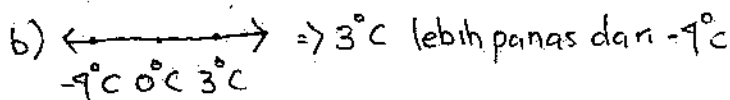
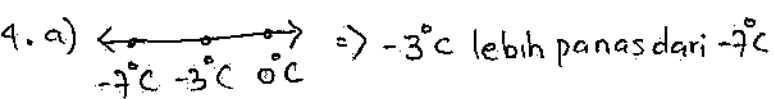
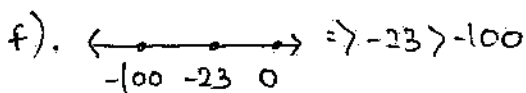
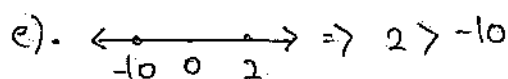
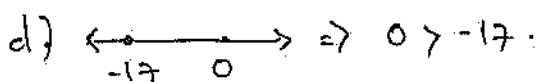
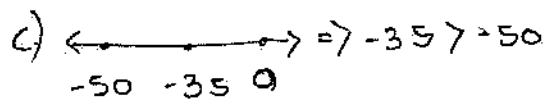
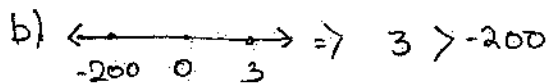
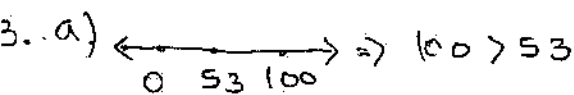
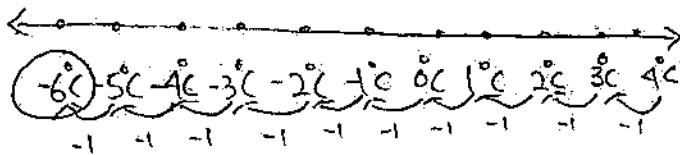


2. Hari ini 4°C ditulis sebagai 0

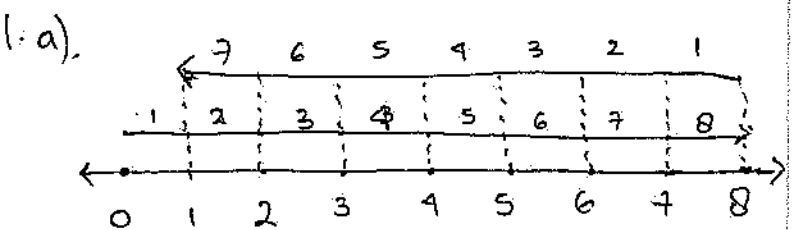
a) Esok hari turun 3°C



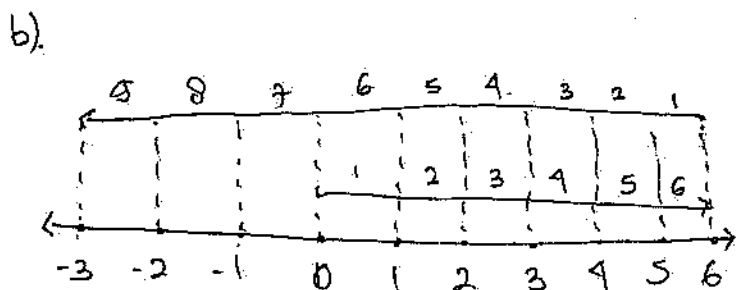
b) Esok hari turun 10°C .



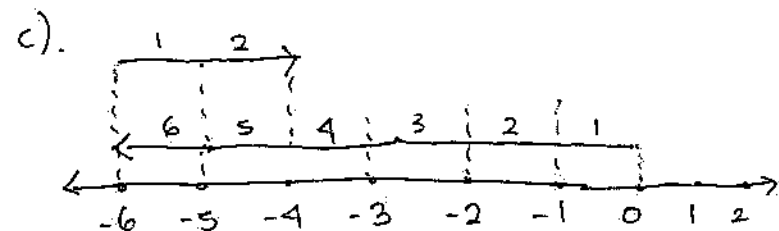
$\Rightarrow -5.423, -4.523, 0, 3.423, 3.523$



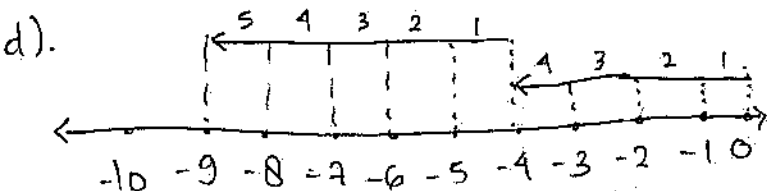
$$\Rightarrow 8 + (-7) = 1$$



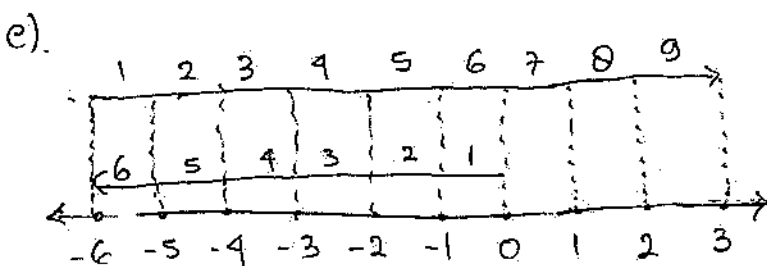
$$\Rightarrow 6 + (-9) = -3$$



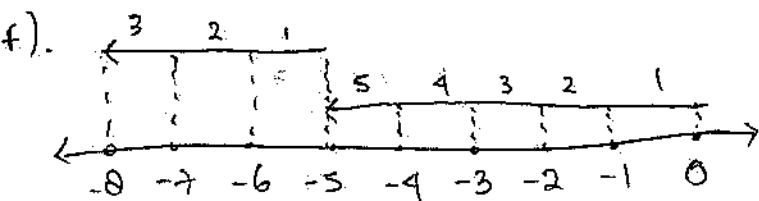
$$\Rightarrow (-6) + 2 = -4$$



$$\Rightarrow (-4) + (-5) = -9$$



$$\Rightarrow (-6) + 9 = 3$$



$$\Rightarrow (-5) + (-3) = -8$$

2.a) $34 + (-5) = 34 - 5 = 29$

b) $49 + (-23) = 49 - 23 = 26$

c) $(-75) + (-34) = -(75 + 34) = -109$

d) $(-69) + (-45) = -(69 + 45) = -114$

3.a) $123 + (-87) = 123 - 87 = 36$

b) $527 + (-213) = 527 - 213 = 314$

c) $(-534) + (-278) = -(534 + 278) = -812$

d) $(-813) + (-376) = -(813 + 376) = -1189$

4.a). $5 + 4$

b). $(-5) + (-4)$

c). $5 + (-3)$

d). $(-5) + 3$

e). $3 + (-5)$

5.

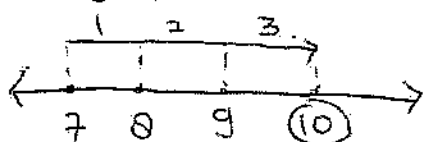
$a+b$	+	-
+	+	①
-	②	-

untuk ① dan ② tidak bisa dipastikan tandanya. Tergantung dari besaran a dan b.

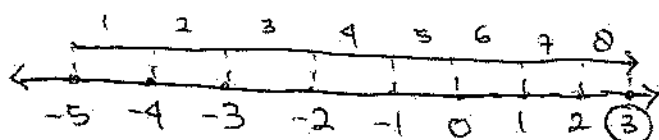
UJI PEMAHAMAN HAL 13

1. a). $2345 + (-173) = 2345 - 173 = 2.172$
 b). $(-5.342) + 567 = -(5.342 - 567) = -4.775$
 c). $(-3.572) + (-730) = -(3.572 + 730) = -4.302$
 d). $457 + (-7.202) = (-7.202) + 457$
 $= -(7.202 - 457) = -6.745$
 e). $536 + (-34) + (-536)$
 $= 536 + (-536) + (-34)$
 $= 0 + (-34) = -34$
 f). $0 + 345 + (-345) = 0 + 0 = 0$

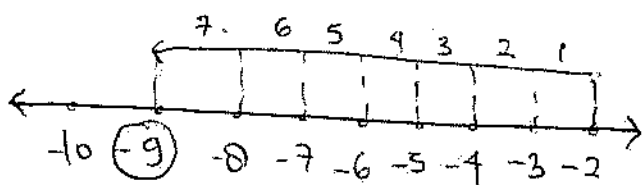
2. a). $7 - (-3) = 10$



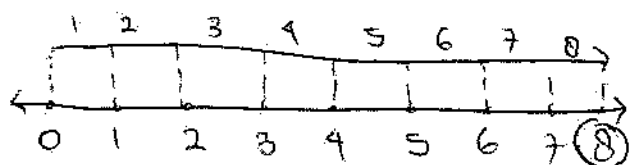
b). $(-5) - (-8) = 3$



c). $(-2) - 7 = -9$



d). $0 - (-8) = 8$



3. a). $a - (-b) = a + b$
 b). $(-a) - (-b) = -a + b$
 c). $(-a) - b = -(a + b)$
 d). $0 - (-a) = a$

4. a). $45 - 37 + 23$
 $= 45 + (-37) + 23 \rightarrow \text{B.O.P}^*$
 $= 8 + 23 = 31$
 b). $(-67) + 45 - 23$
 $= (-67) + 45 + (-23) \rightarrow \text{B.O.P}^*$
 $= -67 + 22$
 $= -(67 - 22) = -45$
 c). $45 - (-57) - 83$
 $= 45 + 57 + (-83) \rightarrow \text{B.O.P}^*$
 $= 102 - 83 = 19$
 d). $(-56) - 45 - (-47)$
 $= (-56) + (-45) + 47 \rightarrow \text{B.O.P}^*$

$= (-56) + 2 = -54$

* B.O.P = Bentuk Operasi Penjumlahan

5. a). $45 + (-37) = 45 - 37 = 8$
 b). $(-45) + 37 = -(45 - 37) = -8$
 c). $45 - (-37) = 45 + 37 = 82$
 d). $(-45) - 37 = -(45 + 37) = -82$
 e). $(-67) + (-29) = -(67 + 29) = -96$
 f). $(-67) - (-29) = -(67 - 29) = -38$

6. a). $a - b \stackrel{?}{=} b - a$, misalkan $a = 3, b = 4$

$\bullet a - b = 3 - 4 = -1$
 $\bullet b - a = 4 - 3 = 1 \rightarrow a - b \neq b - a$

b). $a - (b - c) \stackrel{?}{=} (a - b) - c$, misalkan $a = 4, b = 3$
 dan $c = 2$

$\bullet a - (b - c) = 4 - (3 - 2) = 4 - 1 = 3$
 $\bullet (a - b) - c = (4 - 3) - 2 = 1 - 2 = -1$
 $\therefore a - (b - c) \neq (a - b) - c$

- c). Ada, yaitu 0 itu sendiri karena jika sebuah bilangan dikurangi 0 akan kembali ke bilangan itu lagi.
 Contoh: $3 - 0 = 3, 4 - 0 = 4, 5 - 0 = 5$

6.d). Ada, yaitu bilangan itu sendiri

Contoh : $3-3=0$, $4-4=0$, $5-5=0$

7.a). $n+21=16$

$$n+2+(-21)=16+(-21)$$

$$n=-5$$

b). $65+n=-13$

$$65+(-65)+n=(-13)+(-65)$$

$$n=-78$$

c). $n-(-8)=17$

$$n+8=17$$

$$n+8+(-8)=17+(-8)$$

$$n=9$$

d). $(-5)+n=7$

$$5+(-5)+n=5+7$$

$$n=12$$

e). $n-6=-5$

$$n+(-6)=(-5)$$

$$n+(-6)+6=(-5)+6$$

$$n=1$$

f). $n-53=-45$

$$n+(-53)=(-45)$$

$$n+(-53)+53=(-45)+53$$

$$n=53-45=8$$

8.a) 436

$$\begin{array}{r} 197 \\ 239 \\ \hline 436 \end{array} \Rightarrow 197+239=436 \checkmark$$

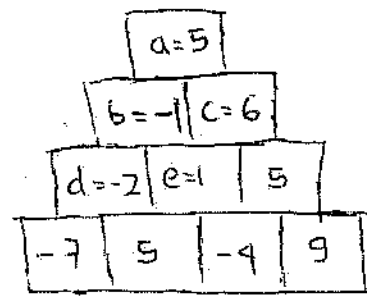
b). 500

$$\begin{array}{r} 164 \\ 336 \\ \hline 500 \end{array} \Rightarrow 164+336=500 \checkmark$$

c). 1702

$$\begin{array}{r} 406 \\ 1316 \\ \hline 1702 \end{array} \Rightarrow 406+1316=1702 \checkmark$$

9.a)



$$\Rightarrow d = -7 + 5 = -(7-5) = -2$$

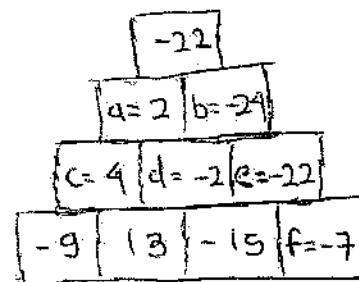
$$\Rightarrow e = 5 + (-4) = 5-4=1$$

$$\Rightarrow b = -2 + 1 = -(2-1) = -1$$

$$\Rightarrow c = 1 + 5 = 6$$

$$\Rightarrow a = -1 + 6 = 5$$

b)



$$\Rightarrow c = -9 + 13 = 13-9=4$$

$$\Rightarrow d = 13 + (-15) = -(15-13) = -2$$

$$\Rightarrow a = 4 + (-2) = 4-2=2$$

$$\Rightarrow b = (-22) - 2 = -(22+2) = -24$$

$$\Rightarrow e = -24 - (-2) = -(24-2) = -22$$

$$\Rightarrow f = -22 - (-15) = -(22-15) = -7$$

10.a). Temperatur pukul 18.00 = 4°C .

Temperatur pukul 15.00 lebih panas

3°C dibanding pukul 18.00

$$\Rightarrow \text{Temperatur pukul 15.00} = 4^{\circ}\text{C} + 3^{\circ}\text{C} = 7^{\circ}\text{C}$$

b). Temperatur pukul 12.00 lebih panas

4°C dibandingkan pukul 15.00

$$\Rightarrow \text{Temperatur pukul 12.00} = 7^{\circ}\text{C} + 4^{\circ}\text{C} = 11^{\circ}\text{C}$$

c). Temperatur pukul 09.00 lebih dingin

2°C dibandingkan pukul 12.00

$$\Rightarrow \text{Temperatur pukul 09.00} = 11^{\circ}\text{C} - 2^{\circ}\text{C} = 9^{\circ}\text{C}$$

(0.d) Temperatur pukul 06.00 lebih dingin
 8°C dibandingkan pukul 09.00

\Rightarrow Temperatur

$$\text{Pukul } 06.00 = 9^{\circ}\text{C} - 8^{\circ}\text{C} = 1^{\circ}\text{C}$$

e).

Waktu	06.00	09.00	12.00	15.00
Temperatur	1°C	9°C	11°C	7°C

Waktu	18.00
Temperatur	4°C

1. a) $5 \times (-4) = -(5 \times 4) = -20$
 b) $(-7) \times 4 = -(7 \times 4) = -28$
 c) $(-6) \times (-3) = 6 \times 3 = 18$
 d) $0 \times 7 = 0$

2. a) $(-a) \times b = -(a \times b) = -ab$
 b) $(-a) \times (-b) = a \times b = ab$
 c) $a \times (-b) = -(a \times b) = -ab$

3.

$a \times b$	+	-
+	+	-
-	-	+

4. • Berat paman sekarang 85 kg
 • Berat paman turun 2 kg setiap minggu

- a). Berat paman lima minggu yang akan datang
 $= 85 - 2 \times 5 = 85 - 10 = 75 \text{ kg}$
 b). Berat paman lima minggu yang lalu
 $= 85 + 2 \times 5 = 85 + 10 = 95 \text{ kg}$

5. Total soal = 30 buah, Poin benar = 4
 Poin salah = -2, Poin tidak menjawab = 0

- a). Jumlah soal benar = 25 soal
 Jumlah soal salah = 3 soal.
 Jumlah soal tidak dijawab = $30 - (25 + 3)$
 $= 30 - 28$
 $= 2 \text{ soal}$

$$\text{Total poin} = 25 \times 4 + 3 \times (-2) + 2 \times 0$$

$$= 100 - 6 = 94 \text{ poin}$$

* Perhatikan jumlah soal tidak dijawab tidak mempengaruhi total poin sehingga tidak perlu dicari tahu

5. b). 23 benar dan 5 salah

$$\Rightarrow \text{Total poin} = 23 \times 4 + 5 \times (-2)$$

$$= 92 - 10 =$$

$$= 82 \text{ poin}$$

- c). 3 benar dan 27 salah.

$$\Rightarrow \text{Total poin} = 3 \times 4 + 27 \times (-2)$$

$$= 12 + (-54)$$

$$= - (54 - 12) =$$

$$= -42$$

- d). 30 salah

$$\Rightarrow \text{Total poin} = 30 \times (-2) = -60$$

1. a). $4 \times (-15) = -(4 \times 15) = -60$
 $(-15) \times 4 = -(15 \times 4) = -60 \rightarrow \text{sama.}$

b). $(-17) \times 11 = -(17 \times 11) = -187$
 $11 \times (-17) = -(11 \times 17) = -187 \rightarrow \text{Sama.}$

c). $(-6) \times (-23) = 6 \times 23 = 138$
 $(-23) \times (-6) = 23 \times 6 = 138 \rightarrow \text{Sama.}$

2. a). $(-1) \times (-1) = 1 \rightarrow \text{positif}$

b). $(-1) \times (-1) \times (-1) = -1 \rightarrow \text{negatif.}$

c). $(-1) \times (-1) \times (-1) \times (-1) =$
 $= (-1) \times (-1) = 1 \rightarrow \text{positif.}$

d). $(-1) \times (-1) \times (-1) \times (-1) \times (-1) \times (-1) \times (-1)$
 $= 1 \times (-1) = -1 \rightarrow \text{negatif.}$

3.

-2	a = -9	b = -24
c = -36	d = -12	e = -1
-6	-4	-18

a). $(-2) \times c \times (-6) = (-6) \times (-4) \times (-18).$

$(-2) \times c = (-2) \times 2 \times (-18).$

$c = 2 \times (-18) = -36.$

a). $(-2) \times d \times (-18) = (-6) \times (-4) \times (-18).$

$(-2) \times d = (-6) \times (-2) \times 2$

$d = (-6) \times 2 = -12$

a). $(-36) \times (-12) \times e = (-6) \times (-4) \times (-18)$

$(-36) \times (-12) \times e = (-6) \times 2 \times \underline{2 \times (-1) \times (-18)}$

$(-36) \times (-12) \times e = (-12) \times (-36) \times (-1).$

$e = -1$

a). $(-4) \times (-12) \times a = (-6) \times (-4) \times (-18).$

$48a = 24 \times (2) \times (-9).$

$48a = 48 \times (-9).$

$a = -9$

3. Lanjutan

a). $(-2) \times (-9) \times b = (-6) \times (-4) \times (-18).$

$18 \times b = \overbrace{6 \times (-1) \times (-4)}^{24} \times (-18)$

$18 \times b = (-24) \times 18$

$b = -24$

4 a). $\square \times 9 \times 8 = 72.$

$\square \times 72 = 1 \times 72.$

$\square = 1$

b). $\underline{7 \times \square \times 4} = -84$

$28 \times \square = 28 \times (-3)$

$\square = -3$

c). $\underline{(-7) \times \square \times (-5)} = 105$

$35 \times \square = 3 \times 35.$

$\square = 3.$

d). $5 \times (-4) \times \square = -60.$

$(-20) \times \square = (-20) \times 3.$

$\square = 3.$

e). $\underline{(-3) \times \square \times (-2)} = -24.$

$6 \times \square = 6 \times (-4)$

$\square = -4$

f). $\underline{(-5) \times \square \times (-3)} = 45.$

$15 \times \square = 15 \times 3.$

$\square = 3.$

5. Bilangan di sekitar 50: $50 + a, 50 + b.$

dimana a, b adalah bilangan bulat

$(50 + a)(50 + b) = 50 \times 50 + 50 \times a + 50 \times b + a \times b.$

a). $47 \times 49 = 50 \times 50 + 50 \times (-3) + 50 \times (-1) + (-3) \times (-1).$

$= 2500 + (-150) + (-50) + 3 = 2303.$

b). $48 \times 46 = 50 \times 50 + 50 \times (-2) + 50 \times (-4) + (-2) \times (-4)$

$= 2500 + (-100) + (-200) + 8 = 2208.$

c). $52 \times 53 = 2500 + 50(2) + 50(3) + (2) \times (3)$

$= 2500 + 100 + 150 + 6 = 2756$

d). $53 \times 48 = 2500 + 50 \times 3 + 50 \times (-2) + (3) \times (-2)$

$= 2500 + 150 - 100 - 6 = 2544.$

1. a). $54 : 2 = \dots \Leftrightarrow 2 \times \dots = 54.$

$$2 \times \dots = 54$$

$$2 \times \dots = 2 \times 27.$$

$$54 : 2 = 27$$

b). $(-639) : 3 = \dots \Leftrightarrow 3 \times \dots = -639.$

$$3 \times \dots = -639.$$

$$3 \times \dots = (-213) \times 3.$$

$$(-639) : 3 = -213.$$

c). $(1256 : (-3)) = \dots \Leftrightarrow (-3) \times \dots = 1256.$

$$(-3) \times \dots = 1256.$$

$$(-3) \times \dots = (-3) \times \left(-\frac{1256}{3}\right)$$

$$1256 : -3 = -\frac{1256}{3} = -418\frac{2}{3}.$$

d). $(-1.404) : (-6) = \dots \Leftrightarrow (-6) \times \dots = (-1.404)$

$$(-6) \times \dots = (-1.404)$$

$$(-6) \times \dots = (-6) \times 234.$$

$$(-1.404) : (-6) = 234$$

2. a). $12 : \dots = 3.$

$$\text{Diketahui: } 4 \times 3 = 12.$$

$$\Rightarrow 12 : 4 = 3.$$

b) $36 : \dots = -4.$

$$\text{Diketahui: } 36 = 9 \times 4 = (-9) \times (-4).$$

$$\Rightarrow 36 : (-9) = -4$$

c). $(-221) : \dots = 17.$

$$\text{Diketahui: } 221 = 17 \times 13$$

$$\Rightarrow -221 = (-17) \times 13 = 17 \times (-13).$$

$$\Rightarrow (-221) : (-13) = 17.$$

d). $(-667) : \dots = -29$

$$\text{Diketahui: } 667 = 29 \times 23$$

$$\Rightarrow -667 = (-29) \times 23.$$

$$\Rightarrow (-667) : 23 = -29$$

3.

$\frac{a}{b}$	+	-
+	+	-
-	-	+

4. a) $\frac{72}{6} = 12$

b). $\frac{360}{72} = \frac{360 : 6}{72 : 6} = \frac{60}{12} = \frac{60 : 6}{12 : 6} = \frac{10}{2} = 5.$

c). $\frac{390}{195} = \frac{390 : 5}{195 : 5} = \frac{78}{39} = \frac{78 : 39}{39 : 39} = 2.$

d). $\frac{3213}{6} = 535\frac{1}{2}.$

5. Pengurangan ketinggian 800 m per menit

$$\begin{aligned} \text{Pengurangan ketinggian} &= 800 \times 10 \\ \text{pada menit ke-10} &= 8.000 \text{ m.} \end{aligned}$$

$$\text{ketinggian awal} = 10.000 \text{ m.}$$

$$\begin{aligned} \text{ketinggian} &= 10.000 - 8.000 \\ \text{pada menit ke-10} &= 2.000 \text{ m.} \end{aligned}$$

$$1. a). 3^3 \times 3^5 = (3 \times 3 \times 3) \times (3 \times 3 \times 3 \times 3 \times 3) \\ = 3 \times 3 \times 3 \times 3 \times 3 \times 3 \times 3 \times 3 \\ = 3^8$$

$$b). 2^7 \times 2^2 = (2 \times 2 \times 2 \times 2 \times 2 \times 2 \times 2) \times (2 \times 2) \\ = 2 \times 2 \times 2 \times 2 \times 2 \times 2 \times 2 \times 2 \times 2 \\ = 2^9$$

$$c). 2^5 \times 2^8 = (2 \times 2 \times 2 \times 2 \times 2) \\ \times (2 \times 2 \times 2 \times 2 \times 2 \times 2 \times 2 \times 2) \\ = 2 \times 2 \times 2 \times 2 \times 2 \times 2 \times 2 \times 2 \times 2 \\ \times 2 \times 2 \times 2 \times 2 \\ = 2^{13}$$

d). Perhatikan bagian a), b) dan c)

$$3^3 \times 3^5 = 3^8, \text{ Dik: } 3+5=8.$$

$$2^7 \times 2^2 = 2^9, \text{ Dik: } 7+2=9.$$

$$2^5 \times 2^8 = 2^{13}, \text{ Dik: } 5+8=13$$

$$\Rightarrow 2^a \times 2^b = 2^{(a+b)}$$

$$2. a). 3^8 : 3^2 = \frac{\cancel{3} \times \cancel{3} \times 3 \times 3 \times 3 \times 3 \times 3 \times 3}{\cancel{3} \times \cancel{3}} \\ = 3^6$$

$$b). 3^7 : 3^4 = \frac{\cancel{3} \times \cancel{3} \times \cancel{3} \times \cancel{3} \times 3 \times 3 \times 3}{\cancel{3} \times \cancel{3} \times \cancel{3} \times \cancel{3}} \\ = 3^3$$

$$c). 2^5 : 3^2 = 3^2/9$$

d). Perhatikan bagian a), b), dan c)

$$3^8 : 3^2 = 3^6, \text{ Dik: } 8-2=6.$$

$$3^7 : 3^4 = 3^3, \text{ Dik: } 7-4=3.$$

$$\Rightarrow 2^a : 2^b = 2^{(a-b)}$$

3. Dik: 2^a adalah bilangan sebut k.

$$2^a = k, \text{ Dik: } k \cdot 1 = k.$$

$$\Rightarrow \frac{2^a}{2^a} = 1 \Rightarrow 2^0 = 1 //$$

$$4. a). (45 \times 40) : 72 = \frac{9 \times 5 \times 5 \times 8}{9 \times 8} = 25.$$

$$b). (84 \times 65) : 105 = \frac{12 \times 7 \times \cancel{8} \times 13}{21 \times \cancel{5}} \\ = \frac{\cancel{3} \times 4 \times \cancel{7} \times 13}{\cancel{7} \times \cancel{3}} = 52.$$

$$c). 30 \times 48 : 200 = \frac{6 \times 5 \times \cancel{4} \times 12}{\cancel{4} \times 72} \\ = \frac{72 \times 5}{72} = 5.$$

$$d). 24 \times 27 : 36 = \frac{\overline{12} \times 2 \times \overline{3} \times 9}{36} \\ = \frac{\cancel{36} \times 2 \times 9}{\cancel{36}} = 18$$

$$5. a). 640 : (12 \times 3) = \frac{8 \times 80}{4 \times 3 \times 3} = \frac{\cancel{4} \times 2 \times 8 \times 9}{\cancel{4} \times 9} \\ = 2 \times 9 = 18$$

$$b). (24 \times 36) : (12 \times 9) = \frac{12 \times 2 \times 4 \times 9}{12 \times 9} = 8.$$

$$c). (160 \times 84) : (20 \times 56) = \frac{8 \times 21 \times \cancel{4} \times 12}{4 \times 7 \times \cancel{8} \times \cancel{7}} \\ = \frac{3 \times \cancel{7} \times \cancel{4} \times 3}{\cancel{4} \times \cancel{7}} \\ = 9.$$

$$d). (3.969 \times 1575) : (147 \times 25) \\ = \frac{9 \times 441 \times \cancel{5} \times 315}{3 \times 49 \times \cancel{5} \times 5} = \frac{\cancel{3} \times \cancel{9} \times \cancel{49} \times 5 \times 63}{\cancel{3} \times \cancel{49} \times \cancel{5}} \\ = 27 \times 63 = 1620 + 81 = 1701$$

$$1. a) 2^3 + 2^3 = 2 \times 2^3 = 2^4$$

$$b) 2^5 + 2^5 = 2 \times 2^5 = 2^6$$

$$c) 2^5 - 2^4 = 2 \times 2^4 - 2^4 = 2^4(2-1) = 2^4$$

$$d) 3^5 - 3^4 = 3 \times 3^4 - 3^4 = 3^4(3-1) = 3^4 \times 2$$

$$2. a) 2^3 + 2^5 = 2^3 \times 1 + 2^3 \times 2^2 \\ = 2^3(1+2^2) = 2^3 \times (1+4) \\ = 2^3(5) = 2^3 \times 5$$

$$b) 2^5 - 2^3 = 2^3 \times 2^2 - 2^3 \times 1 \\ = 2^3 \times (2^2 - 1) = 2^3(4-1) \\ = 2^3 \times 3$$

$$c) 3^5 + 3^2 = 3^2 \times 3^3 + 3^2 \times 1 \\ = 3^2 \times (3^3 + 1) = 3^2 \times (27+1) \\ = 3^2 \times (28) = 3^2 \times 2^2 \times 7$$

$$d) 3^7 - 3^6 = 3^6 \times 3 - 3^6 \times 1 \\ = 3^6 \times (3-1) \\ = 3^6 \times 2$$

$$3. a) 2^3 + (2^4 \times 2^5) = 2^3 + 2^9 \\ = 2^3 \times 1 + 2^3 \times 2^6 \\ = 2^3(1+2^6) = 2^3(1+64) \\ = 2^3(65) = 2^3 \times 5 \times 13$$

$$b) 3^5 + (3^2 \times 3^3) = 3^5 + 3^5 = 2 \times 3^5$$

$$4. a) (2^5 + 2^3) : 2^2 = (2^3 \times 2^2 + 2^3 \times 1) : 2^2 \\ = [2^3(2^2 + 1)] : 2^2 \\ = \frac{2^3 \times (4+1)}{2^2} = 2 \times 5$$

$$b) (2^7 - 2^4) : 2^2 = (2^4 \times 2^3 - 2^4 \times 1) : 2^2 \\ = [2^4 \times (2^3 - 1)] : 2^2 \\ = 2^2 \times (8-1) = 2^2 \times 7$$

$$5. a) 2^7 + (2^5 \times 2^2) = 2^7 + 2^7 = 2 \times 2^7 = 2^8$$

$$b) 2^7 - (2^5 \times 2^2) = 2^7 - 2^7 = 0$$

$$c) (2^7 + 2^6) : 2^3 = (2^6 \times 2 + 2^6 \times 1) : 2^3 \\ = [2^6(2+1)] : 2^3 \\ = 2^3 \times 3$$

$$d) (2^9 - 2^4) : 2^3 = (2^4 \times 2^5 - 2^4 \times 1) : 2^3 \\ = [2^4(2^5 - 1)] : 2^3 \\ = 2 \times (32-1) = 2 \times 31$$

PRAKIRAAN CUACA KOTA MOSKOW

Suhu	Siang	Malam
Selasa, 1 Februari 2022	-2°C	-5°C
Rabu, 2 Februari 2022	-3°C	-6°C
Kamis, 3 Februari 2022	-4°C	-9°C
Jum'at, 4 Februari 2022	-5°C	-8°C

Kelembapan	Siang	Malam
Selasa, 1 Februari 2022	86%	88%
Rabu, 2 Februari 2022	84%	87%
Kamis, 3 Februari 2022	87%	89%
Jum'at, 4 Februari 2022	84%	87%

Pertanyaan 1

Pernyataan 1: Tidak, karena yang tertera adalah siang hari lebih panas (lebih besar) dibandingkan malam hari

Pernyataan 2: Iya, Perhatikan

$$1 \text{ Februari} : -2 - (-5) = 5 - 2 = 3^{\circ}\text{C}$$

$$2 \text{ Februari} : -3 - (-6) = 6 - 3 = 3^{\circ}\text{C}$$

$$\text{terbesar} \rightarrow 3 \text{ Februari} : -4 - (-9) = 9 - 4 = 5^{\circ}\text{C}$$

$$4 \text{ Februari} : -5 - (-8) = 8 - 5 = 3^{\circ}\text{C}$$

Pernyataan 3: Iya, Perhatikan di atas

Pernyataan 4: tidak, karena suhu pada tanggal 4 Februari 2022 waktu malam hari adalah -8°C yang lebih hangat dibandingkan suhu pada tanggal 3 Februari 2022 waktu malam hari sebesar -9°C.

Pertanyaan 2

Pernyataan 1: Iya, Perhatikan ↓

$$1 \text{ Februari} : 88\% - 86\% = 2\% \leftarrow \text{ada}^*$$

$$2 \text{ Februari} : 87\% - 84\% = 3\% \leftarrow \text{ada}^*$$

$$3 \text{ Februari} : 89\% - 87\% = 2\% \leftarrow \text{ada}^*$$

$$4 \text{ Februari} : 87\% - 84\% = 3\% \leftarrow \text{ada}^*$$

* ada kalau selisih kelembapan nya tidak sama dengan nol

Pernyataan 2: Iya, Perhatikan ↑

Pernyataan 3: Iya, karena suhu pada siang hari lebih hangat dibandingkan malam hari dan perubahan suhunya sebesar 3°C

Pernyataan 4: tidak, karena selisih suhu terbesar adalah 5°C

Pertanyaan 3

Pernyataan 1: Selisih suhu malam hari

3 Februari dan 4 Februari

$$\rightarrow -8 - (-9) = 9 - 8 = 1^{\circ}\text{C}$$

Pernyataan 2: Selisih suhu malam hari

2 Februari dan 3 Februari

$$\rightarrow -9 - (-6) = -(9 - 6) = -3^{\circ}\text{C}$$

Pernyataan 3: Penurunan suhu pada 4 Februari

$$\rightarrow (-5) - (-8) = 8 - 5 = 3^{\circ}\text{C}$$

Pernyataan 4: Penurunan suhu tertinggi ada pada 3 Februari yaitu 5°C