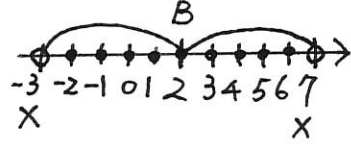


班級: _____ 座號: _____ 姓名: _____

1. 數線上有 $A(a)$ 、 $B(2)$ 兩點，若 a 為整數，且 $\overline{AB}$ 的長小於 5，求 a 可能的值

$$\begin{aligned} 2+5 &= 7 \times \\ 2-5 &= -3 \times \end{aligned} \quad (\because \overline{AB} < 5)$$

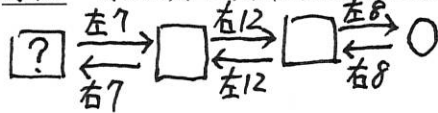
$$\Rightarrow a = -2, -1, 0, 1, 2, 3, 4, 5, 6$$



2. 數線上，小春的位置在 5，先向右走 4 個單位長，再向左走 3 個單位長，最後再向左走 8 個單位長，請問小春最後位置在哪裡？

$$5 + 4 - 3 - 8 = -2$$

3. 數線上有一個玩具士兵，先向左走 7 個單位長，再向右走 12 個單位長，再向左走 8 個單位長，最後他的位置停留在原點，求玩具士兵最初的位置是多少？



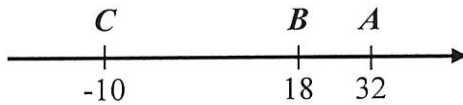
$$0 + 8 - 12 + 7 = 3$$

倒走回去

4. 數線上 A 、 B 、 C 三點所表示的數分別為 32、18、-10，

- (1) 若 D 在 C 點右邊，且 $\overline{CD} = \overline{AB}$ 求 D 點所表示的數=?
 (2) 若 D 在 C 點左邊，且 $\overline{CD} = 2\overline{AB}$ 求 D 點所表示的數=?
 ($2\overline{AB} = 2 \times \overline{AB}$ ，表示兩倍 $\overline{AB}$ 長)

$$\overline{AB} = 32 - 18 = 14$$



$$(1) \overline{CD} = \overline{AB} = 14$$

$\therefore D$ 在 C 右邊

$$\therefore (-10) + 14$$

$$= 4$$

$$(2) \overline{CD} = 2\overline{AB}$$

$$= 2 \times 14$$

$$= 28$$

$\therefore D$ 在 C 左邊

$$\therefore (-10) - 28 = -38$$

5. 下表是表示 8 位同學的體重與全班平均體重的相差數

- (1) 丙生比甲生重多少公斤？(2) 最重和最輕者相差多少公斤？
 (3) 若丙生的體重是 44 公斤，全班的平均體重多少公斤？
 (4) 此 8 位同學的平均體重多少公斤？

學生	甲	乙	丙	丁	戊	己	庚	辛
(某生體重)	-7	3	-2	0	4	-4	-3	1
-(平均體重)	39	49	44	46	50	42	43	47

$$(1) (-2) - (-7)$$

$$= (-2) + 7$$

$$= 5(\text{kg})$$

$$(3) \because \text{丙比全平少 } 2\text{kg}$$

$$\therefore \text{全平比丙多 } 2\text{kg}$$

$$\Rightarrow 44 + 2 = 46(\text{kg})$$

$$(2) 4 - (-7)$$

$$= 4 + 7$$

$$= 11$$

$$(4) (-7) + 3 + (-2) + 0 + 4 + (-4) + (-3) + 1$$

$$= -8$$

$$(-8) \div 8 = -1 \Rightarrow 46 + (-1) = 45(\text{kg})$$

$$\text{另: } (39 + 49 + 44 + 46 + 50 + 42 + 43 + 47) \div 8 = 360 \div 8 = 45(\text{kg})$$

6. 求下列各式的值

$$(1) (-6) \times 3$$

$$= -(6 \times 3)$$

$$= -18$$

$$(2) 3 \times (-15)$$

$$= -(3 \times 15)$$

$$= -45$$

$$(3) (-8) \times (-125)$$

$$= 8 \times 125$$

$$= 1000$$

$$(1) (-45) \div 3$$

$$= -(45 \div 3)$$

$$= -15$$

$$(2) 289 \div (-17)$$

$$= -(289 \div 17)$$

$$= -17$$

$$(3) (-561) \div (-11)$$

$$= 561 \div 11$$

$$= 51$$

7. 計算下列 $\square$ 的值

$$(1) (-4) \times \square = 52$$

$$\square = 52 \div (-4)$$

$$= -13$$

$$(2) \square \times (-7) = -119$$

$$\square = (-119) \div (-7)$$

$$= 17$$

$$(3) \square \div (-32) = 8$$

$$\square = 8 \times (-32)$$

$$= -256$$

$$(4) (-187) \div \square = (-11)$$

$$\square = (-187) \div (-11)$$

$$= 17$$

$$(5) \square \times (-92) = 0$$

$$\square = 0 \div (-92)$$

$$= 0$$

$$(6) \square \div (-25) = 0$$

$$\square = 0 \times (-25)$$

$$= 0$$

8. 求下列各式的值

$$(1) (-18) \times 7 \times (-5)$$

$$= 90 \times 7$$

$$= 630$$

$$(2) 125 \times (-4) \times 8$$

$$= (-500) \times 8$$

$$= -4000$$

$$(3) 25 \times (-63) \times (-4) \times 2$$

$$= 100 \times 126$$

$$= 12600$$

$$(4) 81 \div 9 \div (-3)$$

$$= 9 \div (-3)$$

$$= -3$$

$$(5) 91 \div (-13) \times 6$$

$$= (-7) \times 6$$

$$= -42$$

$$(6) 236 \div (-4) \times 3$$

$$= (-59) \times 3$$

$$= -177$$

$$(7) (-1) \times (-1) \div (-1) \times (-1) \div (-1) \quad (8) (-5566) \times 72 \times 0$$

$$= -(1 \times 1 \div 1 \times 1 \div 1)$$

$$= -1$$

$$= 0$$

$$(9) (-9) - 3 \times (-5)$$

$$= (-9) - (-15)$$

$$= (-9) + 15 = 6$$

$$(10) (-49) + (-63) \div (-7)$$

$$= (-49) + 9$$

$$= -40$$

$$\begin{aligned}
 (11) \quad & \underline{(-5) \times 12 - 6 \times 18} \\
 & = (-60) - 108 \\
 & = (-60) + (-108) \\
 & = -168 \\
 (12) \quad & \underline{(-38) + (-7) \times 8 + (-9) \times 7} \\
 & = (-38) + (-56) + (-63) \\
 & = (-94) + (-63) \\
 & = -157
 \end{aligned}$$

$$\begin{aligned}
 (13) \quad & \underline{\overset{-13}{(-39) \div 3} \times (-4) + 6 \times (-23)} \\
 & = 52 + (-138) \\
 & = -86
 \end{aligned}$$

$$\begin{aligned}
 (14) \quad & \underline{(-340) \div 17 - (-18) \times 2 + 21 \div (-7)} \\
 & = (-20) - (-36) + (-3) \\
 & = (-20) + 36 + (-3) \\
 & = 13
 \end{aligned}$$

$$\begin{aligned}
 (15) \quad & 34 - (5 - \underline{12 \div 3}) \\
 & = 34 - (5 - 4) \\
 & = 34 - 1 \\
 & = 33
 \end{aligned}$$

$$\begin{aligned}
 (16) \quad & (-35) \div [\underline{32 \div (-4)} + 1] \\
 & = (-35) \div [(-8) + 1] \\
 & = (-35) \div (-7) \\
 & = 5
 \end{aligned}$$

$$\begin{aligned}
 (17) \quad & (-2) \times [3 \times \underline{(11 - 4)} - \underline{(6 - 11) \times 4}] \\
 & = (-2) \times [3 \times 7 - (-5) \times 4] \\
 & = (-2) \times [21 + 20] \\
 & = (-2) \times 41 \\
 & = -82
 \end{aligned}$$

$$\begin{aligned}
 (18) \quad & 25 + \{6 \times [\underline{(-2) + 5}] \div (-2)\} \\
 & = 25 + \{6 \times 3 \div (-2)\} \\
 & = 25 + (-9) \\
 & = 16
 \end{aligned}$$

$$\begin{aligned}
 (19) \quad & \underline{(-2) \times 3} - \underline{|4 + (-7)|} \\
 & = (-6) - |(-3)| \\
 & = (-6) - 3 \\
 & = -9
 \end{aligned}$$

$$\begin{aligned}
 (20) \quad & |(-6) \times \underline{(4 - 14)}| - |9 \times \underline{(7 - 10)}| \\
 & = |(-6) \times (-10)| - |9 \times (-3)| \\
 & = |60| - |-27| \\
 & = 60 - 27 \\
 & = 33
 \end{aligned}$$

$$\begin{aligned}
 (21) \quad & \underline{36 \div (-2)} - \underline{|49 \div (-7)|} \times (-8) + (-2) \\
 & = (-18) - |-7| \times (-8) + (-2) \\
 & = (-18) - 7 \times (-8) + (-2) \\
 & = (-18) + 56 + (-2) \\
 & = 38 + (-2) \\
 & = 36
 \end{aligned}$$

$$\begin{aligned}
 (22) \quad & 38 + (-5) \times [35 - \underline{(-4) \times (-5)}] \div 3 \\
 & = 38 + (-5) \times [35 - 20] \div 3 \\
 & = 38 + (-5) \times 15 \div 3 \\
 & = 38 + (-25) \\
 & = 13
 \end{aligned}$$

$$\begin{aligned}
 (23) \quad & 72 - 2 \times [17 - 3 \times \overset{4}{\underline{(5 - 9)}}] \\
 & = 72 - 2 \times [17 - 12] \\
 & = 72 - 2 \times 5 \\
 & = 72 - 10 \\
 & = 62
 \end{aligned}$$

$$\begin{aligned}
 (24) \quad & (-19) + (-4) \times |24 + \underline{(-16) \div 8}| \\
 & = (-19) + (-4) \times |24 + (-2)| \\
 & = (-19) + (-4) \times 22 \\
 & = (-19) + (-88) \\
 & = -107
 \end{aligned}$$

$$\begin{aligned}
 (25) \quad & \{[\underline{28 + (-42)}] \div 7 - 5\} + \underline{(-14) \times 2} \\
 & = \{(-14) \div 7 - 5\} + (-28) \\
 & = \{(-2) - 5\} + (-28) \\
 & = (-7) + (-28) \\
 & = -35
 \end{aligned}$$

$$\begin{aligned}
 (26) \quad & 10 + \{[34 \times \underline{(-4 + 3)} - 5] \div 13\} + \underline{6 \div (-2)} \\
 & = 10 + \{[34 \times (-1) - 5] \div 13\} + (-3) \\
 & = 10 + \{[-34 - 5] \div 13\} + (-3) \\
 & = 10 + \{(-39) \div 13\} + (-3) \\
 & = 10 + (-3) + (-3) \\
 & = 4
 \end{aligned}$$