Date

learning to calculate with the abacus

session 18

addition with the hands

units' column



1. Decipher the coded message

Solve the following operations using the abacus and discover the coded message. Observe the example.

$$\triangle$$
 4-2+1= \bigcirc 3 = A

©
$$2+5+2=$$
 =Y

$$2+1-1= = T$$

①
$$5+1+1-2=()=U$$

$$3+1= = =$$

©
$$5+3-1=$$
 =B

$$2+2-1=$$
 =A

$$4-2+2=$$
 =L

©
$$5+3-5=$$
 =A



 3
 7
 3
 1
 5
 6
 1
 3
 4
 1
 5
 4
 3
 2
 8
 0



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addition and subtractions with the abacus units' column

2. Decipher the coded message

Solve the following operations using the abacus and discover the coded message. Observe the example.

- (A)
- 2 -1
- 2
- B
 - 5

(C)

- (D)
- 2

- 2

- (F)

- **(G)**
- 4 -2 -1

- 2

- 1

 - -2 -1



9 2 0 6 4 8



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ALOHA

3. Decipher the coded message

Solve the following operations using the abacus and discover the coded message. Observe the example.

$$\triangle$$
 2+2-2= = = A

①
$$3-2+1=$$
 $=$ $=$ $=$ $=$ $=$

$$=T \oplus 1+5+1+1= =B$$

$$\bigcirc$$
 1+3-3= 1 = D

$$4-4+1= \bigcirc = D$$

$$\oplus$$
 1+5-1= = = S

$$\bigcirc$$
 5+2-1= = = \bigcirc = \bigcirc



$$\frac{2}{2}$$
 $\frac{1}{1}$ $\frac{1}{7}$ $\frac{1}{5}$ $\frac{1}{3}$ $\frac{1}{8}$ $\frac{1}{9}$ $\frac{1}{6}$ $\frac{1}{2}$ $\frac{1}{4}$ $\frac{1}{9}$

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units' column



4. Decipher the coded message

Solve the following operations using the abacus and discover the coded message. Observe the example.

(C)

$$= T$$

$$^{\otimes}$$

$$=$$

-1

$$\oplus$$

(E)





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1. Decipher the coded message

Solve the following operations using the abacus and discover the coded message. Observe the example.

$$\triangle$$
 4-2+1= \bigcirc =A

$$\bigcirc$$
 2+5+2= \bigcirc 9)=1

$$2+1-1=(2)=T$$

$$\oplus$$
 4-2-1= 1=C

$$5+1=6=$$

$$3-1-1=(1)=C$$

$$5+3+1=(9)=1$$

$$\bigcirc 1 + 1 + 2 - 1 = \boxed{3} = A$$

$$\bigcirc 5+1+1-2=(5)=U$$

$$3+1=4=4=L$$

$$2+2-1=3=$$

$$4-2+2=4$$

©
$$5+3-5=(3)=A$$

$$4-3=(1)=C$$



A B A C U S C A L C U L A T I O N
1 3 7 3 1 5 6 1 3 4 1 5 4 3 2 8 0



To solve the exercises you can also check:

Practice sheets



Theory practice sheets from sessions 4 and 10



"The Abacus: Beads movement I" and "The Beads movement II"

(R)

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2. Decipher the coded message

Solve the following operations using the abacus and discover the coded message. Observe the example.

- \bigcirc
- 2 -1
- 2
- (B)
 - 5 4
- -2
- (C)
- (D)
- -3
- 2 2

(E)

- (F)

- (G)
- 4 -2
- -1



F L A S H C A R D S



To solve the exercises you can also check:

Practice sheets



Theory practice sheets from sessions 4 and 10



videos

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3. Decipher the coded message

Solve the following operations using the abacus and discover the coded message. Observe the example.

$$\triangle$$
 2+2-2= \bigcirc =A

©
$$5+1+3=9=T$$

$$3-2+1=2=4$$

(B)
$$5+4=9=1$$

$$3+1-1=(3)=0$$

©
$$1+3-3=1=D$$

$$4-4+1=1=D$$

$$1+5-1=(5)=S$$

$$\bigcirc$$
 5+2-1= \bigcirc 6 = \bigcirc



$$\frac{A}{2} \frac{D}{1} \frac{D}{1}$$
 $\frac{8}{5}$ $\frac{S}{5} \frac{U}{3} \frac{B}{8} \frac{T}{9} \frac{R}{6} \frac{A}{2} \frac{C}{4} \frac{T}{9}$

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4. Decipher the coded message

Solve the following operations using the abacus and discover the coded message. Observe the example.

(C)

$$(5)=1$$

$$^{\otimes}$$

$$(2) = S$$

(H)

$$9$$
=D

(I)

(D)

(E)

3

 \bigcirc

$$(8)=U$$

$$(6) = E$$

$$\overline{0}$$
=0

-2

$$(0) = C$$





 $\frac{R}{3} = \frac{E}{6} = \frac{S}{2} = \frac{U}{8} = \frac{L}{1} = \frac{T}{5} = \frac{S}{7}$

To solve the exercises you can also check:

Practice sheets



Theory practice sheets from sessions 4 and 10



"The Abacus: Beads movement I" and "The Beads movement II"