



COMPOSITION  
BOOK

Dec. 7, 1941

Jan. 18, 1942

No. 725

Paul M. Hertz Co.

Dec 7, 1941. S. Fair To L.A.

Mr. Hamada driving, his wife, Mrs. Mitsuhashi  
& ourselves. 12:30 P.M. To L.A. At St. Peter's

Rev. Bussingham asked to call tomorrow, even

In Sun Window Valley. Keiko called my  
attention to "Extra" with "Jap" "wan"  
was closing and said it would be "dema"

and paid no attention. Heavy traffic today.

Took rooms at Olympic. On way to San-iso to

Saw extras of L.A. Japanese Daily News and

San-Eyo-Nippo, stating Japanese attack on

Pearl Harbor and Manila. Hard to believe:

2 cops at corner (1st & San Pedro), street was

crowded but quiet prevails. At San-iso to

many white people eating. Leaving the place

overheard Kida-San instructing boys to

close for the day "in accordance with advise from

police" to prevent troubles. Bought evening

papers and read it closely in our room.

War has come! No doubt about it.

our prayers for peace between father  
land and that of my captors denied?

Saw Dr. Amano taken away by plain clothe  
men. Tried in vain to telephone home.

Talked with Jr on telephone at about 10 p.m.  
Told Mr. Hamada to be ready to start home  
at 4 a.m. so we can be home around 8 a.m.

Phoned Mrs. Ozasa that Dr. Amano was taken  
to police station, she wondered why.

Dec. 8 Monday.

3 plain clothe kicked open the door, impatient  
to wait for me to open it. One of them called  
headquarters if they were to take Mrs. Hiratzka  
along. Answer must have been "yes". we  
were taken to E. 1st police headquarter. in a  
waiting car. Mrs. Hiratzka was not wanted  
there and one of the young men took  
her back to the Olympic Hotel.

Photographed with "L.A. 111" number on  
breast. At about 4:30 A.M. taken to  
Lincoln Heights City Jail. Found Chino,  
Mukaeda, Drs. Furusawa, Nakaya, Amano  
in group of about 125. The large cell  
showed no trace of bed bogs and  
proved much cleaner than the 1st Street  
station. Oatmeal with prunes for  
breakfast. Noonday and evening meals  
all beans, cleaned up everytime. Togo  
Tanaka joined us, arrested at about 1  
P.M. Said Komai & Suzuki taken yester-  
day. Tanabe also came in.

Dec 9 Tuesday.

Noon chili beans proved to be too much  
for most of us and many left at least  
1/3 of it. Men serving misdemeanor  
charges were cooking. Was nominated

to 7 member Committee to study  
situation. Passed a resolution

Dec. 10

After a careful consideration and further  
discussion, unanimously decided to purchase  
U.S. Defense Savings Bond individually and  
96 cell mates subscribed to the amount of  
\$26,350.

朝は豆、昼はビーンズ、夜は豆  
またあすは豆、また暮は豆。

(Beans for breakfast, beans for lunch, beans for supper  
There'll be beans tomorrow but beans make you healthy  
was moved to County Jail. Bathed, clad  
in prison attire, was assigned to Cell  
# 2 Tank 11 F 1, facing the Hall of Records,  
across Temple Street. Cellmates Tada,  
Kubota, both of Los Angeles.

Dec. 11

No news of release for 45 men in Tank  
11 F 1. Through newspapers the boy's  
bought, were able to learn the extent of

of arrest of Japanese throughout U.S.

Dec. 12

was called down and questioned, an interpreter whose pronunciation made me think of a Chinese was there. Membership in Japanese Ass'n and donations to Kaigun Kyokai were two of the points made much of.

Young citizen Japanese, Hamasaki, Taji & Tagami who were picked up on their way home from work early Monday morning were released.

Dec. 13

Nothing worth while to record. As usual we paced up and down the isle along the iron barred fence.

Dec. 14

Sunday

In the morning we were called down and questioned as to our place and date of

birth, weighed, measured and pictures front and side views were taken. The immig. inspector who questioned me was the one checked Mr. Minami's A.R. Card and passport in Guadalupe about a week or 10 days ago.

In the afternoon, another immig. inspector checked my entry to U.S. etc. Signed a permission for F.B.I. to search my house.

Imajuzi who was removed to a hospital part of the jail told me <sup>that</sup> Ota, <sup>who</sup> had been convicted a year or so ago in connection with a struggle for control of gambling establishment, expressed his desire to see me, - he too must be sick.

Four Sq. Gospel people came and conducted a brief service at 11:30 A.M. Heard a Japanese voice preaching elsewhere in other part of the jail.

Dec. 15 m.

Paper reported the suicide of Dr. Honda in the Terminal Island Detention House. He was found dead yesterday morning by attendants. - Slashing of wrist vein. This is the 3rd suicide since the arrest started.

Sumi, Inouye had visit of their families.

Thed Ambrella left to his people in N. J. after serving 14 months.

Dec. 16 Tuesday.

9 A.M. Bath. Without the least idea just where we are to be taken, we dressed and left County Jail. bidding good-bye to about a dozen men to be left behind and Bill, the kid from Detroit, who served as a trustee of Tank I.F.I. Contrary to my expectation we, the Police wagon did not stop at The Union Depot but passed it. Boarded

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Train just off Mission Road across from County Hospital. Thought drifted to Tom in San Francisco, but dismissed worry trusting that Almighty God would take care of him. Some Japanese came in busses from outside Los Angeles and many people I know went through our coach to get their seats in the rear coaches. Colored boys served good supper. The Train left at about 10:30 p.m. for unknown destination. Okita sat by the window beside me, G. Yamamoto & Ota, all of L.A. opposite us.

Dec. 17 Wednesday.

Rough & poor switching woke us up. It was San Luis Obispo. Train stopped quite a long time at Santa Margarita - only 40 miles from home. Noon at Salinas. Toward dusk at Oakland. Moving to a front coach passed thru one in which Minami, 2 Tanabaki, Kodama, Oishi, Koyama, Otoy. Murakami were eating lunch.

Dec. 18 Thursday.

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ほのぼの<sup>と</sup>と明け行く空に急の外は  
雪と湖クラマスの雪.

(Out of the train window, the dawn is near,  
Faint light on the lake and snow <sup>KLAMATH</sup> COVERED.)  
Inspector brought me a familiar suitcase  
from home, seems to have been picked  
up at Santa Barbara, 10 A.M.

あゝかたじけなく<sup>すばらしい</sup>手摺一つは 捨てる物  
(O gracious! Heavenly gift is this suitcase)

妻と子の真心<sup>の</sup>詰めめし 手摺の即.  
(Here comes my suitcase, filled with  
affection of my beloved wife and children  
12. Noon. 午日もまた飯と話で暮しゆく)  
(A DAY is gone again with nothing out,  
conversation and meals)

7 A.M. 捕はれし行衛も知らぬ旅先<sup>と</sup>と

神共はまして心<sup>を</sup>守りてし  
(The destination not known, this journey of mine  
(But feel safe in the thought that God is with me  
Raining heavily in Portland.)

Dec. 19 Friday.

was in Spokane, Wash.

捕はれし旅は: 夢見る一家<sup>の</sup>家<sup>の</sup>家<sup>の</sup>家<sup>の</sup>  
(Though on a journey in custody, my dreams  
are of the sweet, sweet home.)

Arrived at Missoula, Montana at 3 P.M.

at 4 at Ft. Missoula Detention Camp.

すばらしい此處<sup>の</sup>旅の後の旅.  
(Here we are! This'll be my sweet home.  
God only knows how long.)

was assigned to Barrack 27 with many  
of Seattle people, less of Angelona.

After supper Supervisor Callaer spoke  
to us in the mess-hall setting forth that  
the Japanese camp would be self-governed  
with a mayor and Councilmen, etc.

Elected Kanbe of Seattle Camp Captain.  
I explained the Supervisor's talk to the  
members of the barrack.

Dec. 20 SAT. Moved to Barrack 29 to be with  
Mr. Minami and others from Guadalupe  
and Santa Maria. Otoy is Captain here.  
wrote many letters for Tomookas, MURAKAMI

with Komai & Nakamura talked with Kimura over the matter of U.S. Defense Savings Bond purchase by fellow detainees here.

Officials began returning articles to men which were taken away from them upon arrest.

Workers were busy with the laying of steam heat lines.

Enjoyed entertainments at B-28 Kawada presiding. Okamura & Oishi sang Gidayu.

Dec. 24 w. Light snow.

To start cooking our own meals men in restaurant business gathered around Oye's sick bed across from mine.

Cooperative store was opened at B-19 with \$2 investment from each

detainee.

Had a terrible sore throat like many other people and awoke 2-3 times during night.

Dec. 25 Thursday Christmas day 19°

A few of the Christians gathered together to have a service some place, but I was unable to attend it due to duties as barlock captain.

Spent couple of hours after turkey dinner with the Prayer Book and the Bible.

Shiida was taken to a hospital in town to be operated on his appendix. He was said to have fainted after supper yesterday. Saw him in sick bed this morning he said "Tanomimasuyo". Prayed for his speedy recovery.

Presented a subscription list of

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U.S. Defense Bond purchase in  
Barrack 29 to Supervisor Callaer  
then Kimura Shonan.

Dec. 26 Friday 14°

Raddis came at last. We were one  
of the last barracks to get it. Money  
has not been handed back to those of  
us from Southern California. We were  
able to procure this thru the courtesy  
of Lt. Inouye and Akiyama of S.F.,  
who were given back money today.  
Zenith table model # 23 with lens  
and socket.

Shimoda, from Santa Monica who  
had attempted suicide by biting  
his tongue is feeling much better.  
He was sitting up in the sick  
barracks.

Shimoda is reported doing well after

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a successful operation on his appendix.  
Dec. 27 Saturday 8°

It is certainly cold now.

Started filling "Record for Alien Enemy  
Detainer" for members of B-29 and  
myself.

was announced to be only 2 meals on  
Sundays at 9 a.m. and 4 P.m.

210 more Japanese, including 135 from  
So. Calif., are expected to be here tomorrow.  
The fence on the South is being pushed over  
to take in 7 more cottages.

Heated argument between Mukacoda and  
Iwanaga on one side and Barn on the  
other was reported.

Dec. 28 Sun.

Tameji Eto, Naoschi Ikeda, C. Ishii,  
J. Tokuyama, S. Kitagawa arrived, took  
them in our cottage together with Abe and

Hyodo of Santa Barbara. Seimi, Shimizu, Mori, Dr. Sekiyama, Rev. Hohri of L.A. also joined us. 213 came in all today, and we had 396. Kept me busy all day looking after new arrivals. All Portland people (6) moved to B-25 to join and live with fresh arrivals from their district. Among the new comers found Okuda, Miyagawa of Seattle, the former is 74 but seems to be in good health; felt sorry for an old man like him to be here.

After supper, listened to a talk by Mr. Shirano.

Dr. Smiley said Shiode is doing very well.

Dec. 29 Snow. mess-hall duty.

6 a.m. up. 7 a.m. in mess-hall with 20 men from B-29, including Mr. Minami.

finishing our own breakfast first waited on table, washed silvers, cleaned the hall. Lunch & supper times did the same. Fairly tired. Bathed. Met Rev. Nakajoi, Episcopal Minister from Portland. his round collar distinguished him. Found C. Ito, Sekiguchi from Seattle, Sakahara of Sumner among the fresh arrivals too.

Dec. 30

Snow

Received new sheets, pillow cases, towels for 27 old roommates. wrote many letters and telegrams for many roommates.

Consulted Mr. Minami about wiring home for Tom to get school money from Jr. He believed it is done and told me to wire home Tom to continue school by all means.

Dec. 31

6°? Cold.

Inspection or roll-call at 8 a.m. & 4 p.m. from today. March to mess-hall at 8:30



Filled out many "Record for Alien Enemy Detainer":

Received some underwears and gloves for poor men as well as for those who have not received anything from home yet.

Received from home 1 sweater, 2 underwears, 1 towel, 1 alum, some sand paper, 2 socks (missing), no letter yet though.

Messrs Minami, Murakami and myself are the only ones now who have not heard from home yet.

Mr. Kubota came and helped Abe finish bath tub

Jan. 3 Saturday. warmer.

Snow 4 or 5 inches deep.

G. Abe of Santa Barbara could not get up, due to a 101° fever. After a tray

service by Kitagawa, moved Abe to B-17, hospital.

Utai practice, started "Kumama Tengui".

Masuy received checks, letters and telegrams from home and friends.

Tachibana received a letter with \$25, and \$20 checks enclosed and he felt like a million dollars. And yet no news either to Mr. Minami or myself.

Wife Mrs. Toshiko Iniyama "Have not heard from home yet wire if all well - Minami" consulted Koyama on this.

Jan. 4 Sun. 1°

Utai practice off and on, Otoy, Eto, Tokuyama joined.

Akiyama came for money B-29 borrowed, from him and Inuyama. for purchase of radio.

Appointed Mr. Shimizu of L.A. Treasurer

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of B-29. Collected #1 dues.  
#16 was all taken in this evening.  
Majority are still flat broke. Took  
#15 to Akiyama at B-18, where I found  
the men discussing heatedly about the  
new rule requiring each barracks to  
furnish 6 men cooking crew for 5 days.

Rev. Takahashi of L.H. spoke about  
40 m. from 7 P.M. and advised the men  
of B-29 to take special care of body  
and soul.

Held Episcopal evening prayer meeting  
at 8:30 P.M. at B-25 with Rev. Nakajo  
leading 3 of us.

No news as yet for Mr. Minami or  
myself.

Jan. 5.

-15°

Dr. Sakiyama down with cold. Abe  
who came back from sick room this

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Morning saying he was all well went  
down as soon as his bed was brought  
back.

Utau practice with Otay under Phara.  
Usual games, black & white, shogi  
and card going off and on.

Mr. Minami received a telegram from  
his wife and family "Received your letter  
and we're glad you are well and enjoy  
peaceful time we are all well and  
healthy." Clouds on his forehead soon  
disappeared.

Jan. 6

Snow off and on.

Supervisor Callen is said to have  
returned from N. Dakota German Con-  
centration Camp. Otay reported, upon  
coming back from a conference with the  
Mayor that Supervisor is well pleased  
with the smooth running of our city

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government.

Odama of Los Angeles came. Wrote a letter for him to his wife and brother-in-law.

Ucari practice.

Jan. 7

-8° Snow off and on.

Mr. Minami received a card from home. Mr. Murasami also received several letters from home. And now I am the only one who has not heard from home in this camp (Barrack).

Mr. Minami is feeling much better now.

Telegram from Hugh E. Macbeth, Executive Secretary of California Race Relations Commission, came from Guadalupe to 14 of us from the same district. Each of us acknowledged receipt by wire.

Ikeda said today that McMahon

25

is to be here soon, had permission to come and see his clients.

Instruction for mail came from Supervisor; 1 Japanese & 2 English letters per week, to be delivered open, with sender's name on left shoulder, & 4 lines the limit; <sup>letters containing</sup> objectionable propaganda or political matter will be filed on the detainee's file.

> 1 page "Alien Enemy Questionnaire" was handed to us, studied and filled out some portion of my own.

Jan. 8

10° Snow all day

at 8 a.m. found about 6" snow on the ground. Was warmer during previous night. at noon was about 8°.

Laundry is functioning smoothly. Gave shirts, pajama and underwears in the morning and at least shirts were brought back in

The afternoon, Tsuchida in the sick room seems to be well enough to get out tomorrow. Abe was up for lunch.

Ishi felt good upon receipt of a remittance of \$25 from home today.

Jan. 9

Friday 2° at 8 a.m.

Tsuchida, who is only ~~retains~~ <sup>62 years old</sup> but looks like a man of 80 with snowy white beard, returned from hospital barrack, cured of his cold, <sup>Gave him a set of mids wear.</sup>

Sumi of L.A. is down and had a tray service by Ota.

Oye could not get up for the kitchen due to a slight fever he had since yesterday. Talked over with Dr. Nakaya and decided to move him to the hospital barrack tomorrow.

Received for the new arrivals 2 sheets, 1 pillowcase, 2 towels each

Abe was working hard making benches I stopped him in accordance with Dr's adv. Mr. Tomooka then stepped in his shoes and finished the job. Went round hunting nails until I finally find some in the supply room.

Letter came from Jordan, dated Dec. 29, written in answer to mine of Dec. 21.

Thank God, all have been well at home and "No. Tom did not come home for the holidays. He was doing a little intern work for about a week. You need not worry about Tom's schooling. I am planning to quit school and see to it he is able to finish."

Wired Jordan "Consult Guadalupe people all propositions made by anyone about me was glad indeed to receive yours December twenty sixth today appreciate your intention letter follows."

78)

After a quiet prayer went to bed with a light heart - relieved in the knowledge that all were well at home and Tom studying hard at school.

Dec. 10 Saturday 20° 8 a.m. 50° at noon  
started working on Mr. Mizumi's Questionnaire.

Took Oye to the hospital barracks in the morning. He has been in the kitchen as one of the 3 chiefs ever since and cooking for men leaving at around 6:30 a.m. during below zero weather. He is not strong, rather delicate physical condition due to his asthma. We decided he needed a rest. May he be spared to join his only daughter again!

Found Old Kusunoto in the

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hospital barracks. His frail figure in the procession to the mess hall during below weather certainly presented a pitiful sight. Hope he pulls through the detention here to go back to Ezo. Calif.

With several men from B-29, among them Eto & Murakami, carried some lumber, picking them up in the snow. Several men made me a very nice writing desk, - Mr. Tomosaka was the chief carpenter - was really a surprise to see him do it.

All afternoon worked on Mr. Mizumi's Questionnaire.

Entertainment in our barracks from 7 p.m. to 9:30 p.m. Koyama presiding, Yamazaki of B-16 took charge of program. Was certainly a good one.

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Sunrise was Ahgidani.

Letter to Jordan, thanked for his plan to quit school to help Tom finish school, asked him if Yatero helping Tom's school expenses and living expenses at home.

Jan  
Dec. 11 Sun 26° at 8 a.m.

Few were dressed at 8 a.m. when an officer came for roll-call. 2 meals today, being Sunday, one @ 9 and the other at 4. 2nd meal consisted of good roast Pork with dressing and gravy, well cooked rice.

With Shimidzu of his brought in 3 pieces of 1x12 x 18' lumber and just when Abe and Kuraishi had them cut up, half way finished into a table, Supply man MURAKAMI came and expressed his desire to

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have them brought back to the pile. Told him that we haven't even had a table made in our barrack patiently waiting <sup>in vain</sup> for him to supply. As he knew very well that to be the cold fact he passed on and without saying any more.

Nakagawa, Principal of Seattle Japanese Language School, spoke to the men of the barrack at 6:30. Except the story about Yoshida Skoin nothing much worth while.

Worked on Mr. Minami's questionnaire

Jan. 12

warm. 18° 7:30 a.m.

Diggest news of the day was the visit of Leo T. McMahon of Santa Barbara. Accompanied by the chief guard he came in the barrack 29 a little before noon. I shook hand with him and the rest of the

men from Central Calif. Coast. He seemed to be in a splendid health and had his usual faint smile on the corner of his mouth. Said he has visited to tell the 4 men for whom he is a retained attorney that they be prepared to discuss with him different things tomorrow. He did not stay any more than 2 minutes but the room-mates were all excited about his U. visit.

Worked with Mr. Minami on many matters on which he would discuss with McMahon tomorrow.

Worked on questionnaires of very many men and did not have time to read a paper.

18° 8 a.m.  
Jan '3

Mr. Minami, Ikeda, Kadama and Mr. Tomaska met with McMahon in the afternoon. McMahon had

with him - an attorney of Missoula, a Mr. Smith of the law-firm of Pope & Smith, First National Bank Bldg., tele 2313, an old friend of his. After supper, Ikeda explained to us the conversation he and other 3 men had with their attorney.

Worked many hours on many men's questionnaires, including Mr. Minami's. Bed at 10:30 p.m.

Jan 14. Wednesday 10° 7 a.m. 38° noon

22 of us from B-29 served in the dining room. Would never see the sight we had there again in outside or in normal life. Minami & Ozay gave knives, forks and spoons in front corner. Waiters were: 1 Tomio, 2 Ichii, 3 Shimizu, 4 Ikeda 6. Ito 7 Takeyama, 8 Oishi 8 Hori. All of these men, big shots of Produce

Rev. Nakajo came on field me - that he inspected 9-11 7/3 of asked will be for religious meetings; that he intended to dedicate it as a church with Episcopal rites.

world of Central Calif. Coast, and of Los Angeles business circles. People were delighted to see these big fellows in such small jobs.

Supper was Udon noodles and some had 2 balls even 3.

Received wire from Jordan dated Jan. 13

"Received Telegram Consulted YATURO  
Everything OKAY Awaiting your letter"

Made me feel very happy, told Mr. Minami about it. Tom will be able to continue his study and finish it even if I am detained here for a year or more.

Got some lumber and coats, caps, gloves from supply department.

Mr Tomooka and his brother received some clothing from home.

Jan. 15 Thursday 0° at 8 28° at noon

Nothing much to record, except that Major Tacka of this prison camp, the gen. manager of S. F. N. Y. K. was among the waiters in the mess-hall.

Worked many hours on Mr. Minami's Questionnaire, translation; and helped many fellows Questionnaire too

Jan 16 Friday -2° @ 8 15° at noon.

Rev. Nagamatsu, Police of Barrack 29, has started yesterday evening to eat meals 1/2 hour earlier than the rest of the barrack mates to be on watch of the barrack. Plumbers boys were caught in the act of stealing a watch in one of the barracks and so this arrangement to provide a watchman was worked out. He said a workman came in yesterday evening but before he asked the fellow what he wanted the

fellow walked away.

Finished translation of Anestheticnaire and worked on it with Mr. Minami. A new printed form was brought in to fill in, same as the other but more in detail.

Received Portuguese gaberdin pants for 13 of us who had not received wool pants before. Mine was size 42. Soaked it in hot & cold water to make it shrink.

Jan. 17 Saturday 12° at 8 27° @ Noon.

A man from Sumner said one of the American boys who had worked many years in his packing shed came here as a guard.

Received #20 This afternoon which was wrested from me in L. A. Police Headquarters. Many did the same.

wrote telegrams for Oishi and Murakami and letter for Ishii.

Received telegram from Mrs. Yoshimatsu Fujimoto that he died the night of the 14<sup>th</sup> and funeral to be conducted on 16<sup>th</sup> 2 P.M. The telegram was received here on the 15<sup>th</sup> but was not handed to us, Ishii and I, until this noon. Wired expressing sympathy <sup>from</sup> Ishii, Otay and myself.

Heard lecture by Dr. Sekigawa and Prof. Nakagawa in B-28.

Jan. 18 Sunday 22° @ 8 38° @ Noon

Kept studying the new printed questionnaire which was brought in the day before.

First religious service took place from 1 P.M. in the recreation building. Tot. 45 m Christian, 2nd 40 m Buddhist, last 40 m Shinto. Christian service was presided by

Rev. Nakajo of Portland, who was robed  
 in Episcopal white robe, scripture read  
 by Mr. Bam, opening prayer by Rev.  
 Hohri, and Rev. Nakajo preached. It  
 was an impressive service, all of us  
 being away from any kind of religious  
 service for 40 days. I felt something  
 choking me when we started singing  
 "Holy Holy Holy - -". Again and  
 again I had to stop singing because  
 my voice failed me - felt my eyes  
 dim with tears. It was not only  
 the minister who prayed "O God,  
 guide the nations of the world into the  
 way of justice and truth and establish  
 among them that peace which is the  
 fruit of righteousness that they may  
 become the Kingdom of our Lord Jesus  
 Christ" Most of the lay men in the  
 Hall must have prayed the same.

2008.2.1

2008.3.1

NUMERATION

Units	1
Tens	12
Hundreds	123
Thousands	1,234
Tens of Thousands	12,345
Hundreds of Thousands	123,456
Millions	1,234,567
Tens of Millions	12,345,678
Hundreds of Millions	123,456,789

MULTIPLICATION TABLE

1	2	3	4	5	6	7	8	9	10	11	12
2	4	6	8	10	12	14	16	18	20	22	24
3	6	9	12	15	18	21	24	27	30	33	36
4	8	12	16	20	24	28	32	36	40	44	48
5	10	15	20	25	30	35	40	45	50	55	60
6	12	18	24	30	36	42	48	54	60	66	72
7	14	21	28	35	42	49	56	63	70	77	84
8	16	24	32	40	48	56	64	72	80	88	96
9	18	27	36	45	54	63	72	81	90	99	108
10	20	30	40	50	60	70	80	90	100	110	120
11	22	33	44	55	66	77	88	99	110	121	132
12	24	36	48	60	72	84	96	108	120	132	144

FEDERAL MONEY

10 cents	make 1 dime
10 dimes	" 1 dollar
10 dollars	" 1 eagle

ENGLISH MONEY

4 farthings	make 1 penny
12 pence	" 1 shilling
20 shillings	" 1 pound
21 shillings	" 1 guinea

METRIC EQUIVALENTS OF WEIGHTS

Gram	.0022 Lbs.
Decagram	.022 "
Hectogram	.22046 "
Kilogram	2.2046 "

Hectare	2.4711 Acres
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METRIC EQUIVALENTS

	inches	feet	yards	miles
Millimeter	.03937	.00328	.00109	
Centimeter	.3937	.0328	.0109	
Meter	39.37011	3.2808	1.0936	
Kilometer	.....	3280.8	1093.6	.62137

AVOIRDUPOIS WEIGHT

16 drams (dr.)	make 1 ounce	marked oz.
16 ounces	" 1 pound	" lb.
25 pounds	" 1 quarter	" qr.
4 quarters or 100 lb.	" 1 hundred weight	" cwt.
20 hundred weight	" 1 ton	" T.

APOTHECARIES' WEIGHT

20 grains (gr.)	make 1 scruple	marked ʒ
3 scruples	" 1 dram	" ʒ
8 drams	" 1 ounce	" ʒ
12 ounces	" 1 pound	" lb.

LONG MEASURE

12 inches	make 1 foot
3 feet	" 1 yard
6 feet	" 1 fathom
5½ yards	" 1 pole or rod
40 poles	" 1 furlong
8 furlongs	" 1 mile
3 miles	" 1 league
89½ miles	" 1 degree
6960 feet	" 1 mile
6075 feet	" 1 nautical mile

SQUARE MEASURE

144 square inches	make 1 square foot
9 " feet	" 1 " yard
36½ " yards	" 1 " rod
160 " rods	" 1 acre
640 acres	" 1 square mile

SOLID OR CUBIC MEASURE

1728 cubic inches	make 1 cubic foot
27 " feet	" 1 " yard
40 " "	" 1 " ton
128 " "	" 1 cord of wood

Note—A cord of wood is a pile 8 feet long, 4 feet wide and 4 feet high, therefore, 8x4x4=128.

DRY MEASURE

2 pints (pt.)	make 1 quart
8 quarts (qt.)	" 1 peck
4 pecks (pk.)	" 1 bushel
86 bushels (bu.)	" 1 chaldron (ch.)

LIQUID MEASURE

4 gills	make 1 pint
2 pints	" 1 quart
4 quarts	" 1 gallon
81½ gallons	" 1 barrel
2 bbl. or 63 gal.	" 1 hogshead (hhd.)

PAPER MEASURE

Folded Paper—	
500 sheets (sh.)	make 1 ream (rm.)
Flat Paper—	
24 sheets (sh.)	make 1 quire
20 quires (qu.)	" 1 ream

TIME MEASURE

60 seconds	make 1 minute
60 minutes	" 1 hour
24 hours	" 1 day
7 days	" 1 week
365 days	" 1 common year
366 days	" 1 leap year
100 years	" 1 century

MISCELLANEOUS MEASUREMENTS

12 units	make 1 dozen
12 dozen	" 1 gross (144)
12 gross	" 1 great gross (1728)
20 units	" 1 score
56 lbs.	" 1 firkin of butter
100 lbs.	" 1 quintal dried salt fish
100 lbs.	" 1 cask of raisins
196 lbs.	" 1 barrel of flour
200 lbs.	make 1 barrel of beef, pork or fish
280 lbs.	make 1 barrel of salt
32 lbs.	" 1 bushel of oats
48 lbs.	" 1 " barley
56 lbs.	" 1 " corn or rye
60 lbs.	" 1 " wheat