

The Standard Pound Weight of Silver is 11 oz. 2 dwt. of fine Silver;
and 18 dwt. of fine Copper.

TROY WEIGHT.

14 Ounces 8 Pennyweights ..	} make	1 Pound, Avoirdu. Weight.
12 Ounces		1 Pound, Troy Weight.
20 Pennyweights		1 Ounce
24 Grains		1 Pennyweight.
20 Mites		1 Grain.
24 Droits		1 Mite.
20 Periot		1 Droit.
24 Blanks	1 Periot.	

TABLE I.—FOR STANDARDING SILVER.

Ounces.	oz.	dwt.	gr.	1000	dwt	oz.	dwt.	gr.	1000
10000.)	225	4	12	108	19	..	..	1	027
90000	202	14	1	297	18	..	..	..	972
80000	180	3	14	486	17	..	..	..	918
70000	157	13	6	675	16	..	..	..	864
60000	135	2	16	864	15	..	..	..	810
50000	112	12	6	054	14	..	..	..	756
40000	90	1	19	243	13	..	..	..	702
30000	67	11	8	432	12	..	..	..	648
20000	45	..	21	621	11	..	..	..	594
10000	22	10	10	810	10	..	..	..	540
9000	20	5	9	729	9	..	..	..	486
8000	18	..	8	648	8	..	..	..	432
7000	15	15	7	567	7	..	..	..	378
6000	13	10	6	486	6	..	..	..	324
5000	11	5	5	405	5	..	..	..	270
4000	9	..	4	324	4	..	..	..	216
3000	6	15	3	243	3	..	..	..	162
2000	4	10	2	162	2	..	..	..	108
1600	2	5	1	081	1	..	..	..	54
900	2	..	12	972	gr. 25	..	..	..	51
800	1	16	..	864	22	..	..	..	49
700	1	11	12	756	21	..	..	..	47
600	1	7	..	648	20	..	..	..	45
500	1	2	12	540	19	..	..	..	42
400	..	18	..	432	18	..	..	..	40
300	..	15	12	324	17	..	..	..	38
200	..	9	..	216	16	..	..	..	36
100	..	4	12	108	15	..	..	..	33
90	..	4	1	297	14	..	..	..	31
80	..	3	14	486	13	..	..	..	29
70	..	3	3	675	12	..	..	..	27
60	..	2	16	864	11	..	..	..	24
50	..	2	6	054	10	..	..	..	21
40	..	1	19	243	9	..	..	..	20
30	..	1	8	432	8	..	..	..	18
20	..	..	21	621	7	..	..	..	15
10	..	..	10	810	6	..	..	..	13
9	..	..	9	729	5	..	..	..	10
8	..	..	8	648	4	..	..	..	9
7	..	..	7	567	3	..	..	..	6
6	..	..	6	486	2	..	..	..	4
5	..	..	5	405	1	..	..	..	2
4	..	..	4	324					
3	..	..	3	243					
2	..	..	2	162					
1	..	..	1	081					

When you have multiplied the weight of the Bullion, take the product out of this Table.

THE USE OF TABLE I.

For Standarding of Silver.

HAVING got a report how much fine silver there is in a pound of standard silver, this table will shew how much it amounts to in any quantity of the said bullion; for finding of which observe the rules following:—

1. Reduce the report of better or worse into half-pennyweights.
2. Multiply the weight of the bullion by the aforesaid half-pennyweights.
3. Take the product out of the foregoing table.
4. After you have taken the product out of the table, add them together, and the total will be the weight that must be added to the first weight, if it be better, to know the standard weight; but if the bullion be worse than standard, subtract the total of the aforesaid addition from the first weight, and the remainder will be the standard weight.—See examples following:

EXAMPLES FOR STANDARDING SILVER.

*To know what Quantity, Standard Weight, 160 Ounces of Silver,
Worse 18½ Dwts. will produce.*

Worse 18½

2

37 Half-dwt.

160 Ounces, Gross Weight.

37

1120

480

Take these 5920 called Ounces, out of the First Table.

Oz.		Oz.	Dwt.	Gr.	1000 Parts.
5000 is	— — —	11	5	5	405
900 is	— — —	2	—	12	972
20 is	— — —	—	—	21	621
<hr style="width: 100%;"/>					
5920 is	— — —	13	6	15	998 Worse

	Oz.	Dwt.	Gr.	1000 Parts.
From	160	—	—	— Gross Weight.
Take	13	6	15	998 Worse.
<hr style="width: 100%;"/>				
	146	13	8	002 Standard.

*To know how much Standard Weight is contained in 287 Ounces
of Silver, Better 12½ Dwts.*

12½ Better.

2

25 Half-dwts.

287 Ounces, Gross Weight.

25

1435

574

Take these 7175 called Ounces, out of the First Table.

Oz.	is	Oz.	Dwt.	Gr.	1000 Parts.
7000	is	15	: 15	: 7	: 567
100	—	—	: 4	: 12	: 108
70	—	—	: 3	: 3	: 675
5	—	—	: —	: 5	: 405
<hr/>					
7175		16	: 3	: 4	: 755 Better.
<hr/>					

Oz.	Dwt.	Gr.	1000 Parts.
287	: —	: —	: — Gross Weight.
16	: 3	: 4	: 755 Better.
<hr/>			
303	: 3	: 4	: 755 Standard Weight.

THE STANDARD OF GOLD.

THE proportion allowed to 1 lb. carat or 1 oz. Troy, is 22 carats of fine gold, 1 carat fine silver, and 1 carat fine copper.

Refiners commonly use this term Carat; and in assaying of Standard Gold they certify a certain composition of weight by it, and proportion it to the 24th part of a pound, or the 24th part of an ounce Troy.

A Pound Weight Carat.

12 Oz. make	24 Carats
4 Gr.	1 Carat
4 Qrs.	1 Grain
10 Dw. Troy	1 Carat
2 Dw. 12 Gr. Troy	1 Grain
15 Gr. Troy	1 Qr. gr.

An Oz. Carat.

1 Oz. Troy makes	24 Carats
4 Gr.	1 Carat
4 Qrs.	1 Grain
20 Gr. Troy	1 Carat
5 Gr. Troy	1 C. gr.

TABLE II.—FOR STANDARDING GOLD.

Ounces	oz.	dwt.	gr.	1000	dwt.	oz.	dwt.	gr.	1000
100000	284	1	19	636	29	..	..	1	204
90000	255	13	15	272	18	..	..	1	226
80000	227	5	10	909	17	..	..	1	158
70000	198	17	6	545	16	..	..	1	090
60000	170	9	2	181	15	..	..	..	022
50000	142	..	21	818	14	..	..	..	954
40000	113	12	17	454	13	..	..	..	885
30000	85	4	13	090	12	..	..	..	817
20000	56	16	8	727	11	..	..	..	749
10000	28	8	4	363	10	..	..	..	681
9000	25	11	8	727	9	..	..	..	613
8000	22	14	13	090	8	..	..	..	545
7000	19	17	17	454	7	..	..	..	477
6000	17	..	21	818	6	..	..	..	442
5000	14	4	2	181	5	..	..	..	340
4000	11	7	6	545	4	..	..	..	212
3000	8	10	10	909	3	..	..	..	221
2000	5	13	15	272	2	..	..	..	156
1000	2	16	19	636	1	..	..	..	68
900	2	11	3	272	gr.23	..	..	..	65
800	2	5	10	909	22	..	..	..	62
700	1	19	18	545	21	..	..	..	59
600	1	14	2	181	20	..	..	..	56
500	1	8	9	818	19	..	..	..	53
400	1	2	17	454	18	..	..	..	51
300	..	17	1	090	17	..	..	..	48
200	..	11	8	727	16	..	..	..	45
100	..	5	16	363	15	..	..	..	42
90	..	5	2	727	14	..	..	..	39
80	..	4	13	090	13	..	..	..	36
70	..	3	23	454	12	..	..	..	34
60	..	3	9	818	11	..	..	..	31
50	..	2	20	181	10	..	..	..	28
40	..	2	6	545	9	..	..	..	20
30	..	1	16	909	8	..	..	..	25
20	..	1	3	272	7	..	..	..	12
10	..	..	13	636	6	..	..	..	17
9	..	..	12	272	5	..	..	..	14
8	..	..	10	909	4	..	..	..	11
7	..	..	9	545	3	..	..	..	8
6	..	..	8	181	2	..	..	..	5
5	..	..	6	818	1	..	..	..	2
4	..	..	5	454					
3	..	..	4	090					
2	..	..	2	727					
1	..	..	1	363					

When you have multiplied the Weight of the Bullion, take the product out of this Table

THE USE OF TABLE II.

For Standarding of Gold.

HAVING got a report of how much fine gold there is in a lb. or in an oz. of any bullion, more or less than there is in a lb. or an oz. of standard gold, the Table shews its amount in any quantity of bullion: to find out which observe the rules following:

1. Reduce the report of better or worse into quarter grains.
2. Multiply the weight of the bullion by the quarter grains.
3. Take the product out of the second table.
4. Add them together.
5. If it be better, add it to the gross weight, the total will be the standard weight; or, if it be worse, deduct the total of the addition from the gross weight, the remainder will be the standard weight.

EXAMPLE I. FOR STANDARDING OF GOLD.

To know the Standard Weight of 270 Ounces, 14 Dwts. and 18 Grains, Gold, Better 1 Carat $\frac{1}{4}$ th Grain.

$$\begin{array}{r} \text{Car.} \quad \text{Gr.} \\ 1 : -\frac{1}{4} \\ 4 \end{array}$$

4

4

17 Quarter Grains.

$$\begin{array}{r} \text{Oz.} \quad \text{Dwt.} \quad \text{Gr.} \\ 270 : 14 : 18 \quad \text{Grose Weight.} \\ \quad \quad \quad 17 \quad \text{Quarter Grains.} \end{array}$$

Take these 4602 : 10 : 18 out of the Second Table.

Oz.	Dwt.	Gr.	is	Oz.	Dwt.	Gr.	1000 Parts.
4000	—	—	is	11	7	6	545
600	—	—	—	1	14	2	181
2	—	—	—	—	—	2	727
—	10	—	—	—	—	—	681
—	—	18	—	—	—	—	051
<hr/>				<hr/>			
4602	10	18	—	13	1	12	185 Better.
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Oz.	Dwt.	Gr.	1000 Parts.
270	14	18	— Gross Weight.
13	1	12	185 Better.

283 : 16 : 6 : 185 Standard Weight.



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EXAMPLE II. FOR STANDARDING GOLD.

To know the Standard Weight of 110 Ounces of Gold, Worse
2 Grains $\frac{1}{4}$.

$$\begin{array}{r} \text{Worse } 2 \text{ --- } \frac{1}{4} \\ \quad \quad \quad 4 \\ \hline \quad \quad \quad 9 \text{ Quarter Grains.} \\ \hline \end{array}$$

110 Oz. Gross Weight.

9

Take these 990 out of the Second Table.

Oz.	Dwt.	Gr.		Oz.	Dwt.	Gr.	1000 Parts.
900	: —	: —	is	2	: 11	: 3	: 272
90	: —	: —	—	—	: 5	: 2	: 727
990	: —	: —	—	2	: 16	: 5	: 999 Worse.

Oz.	Dwt.	Gr.	1000 Parts.
110	: —	: —	: — Gross Weight.
2	: 16	: 5	: 999 Worse.
107	: 3	: 18	: 001 Standard Weight.

POSTSCRIPT.

Plate 33. The 50-Stiver-Piece of Louis Napoleon, King of Holland, W $5\frac{1}{2}$ dwt. Weight 17 dwt. Sterling Value 4s. $3\frac{1}{4}d$.

Plate 34. The Half Batavian Mohr, Weight 5 dwt. $3\frac{1}{2}$. W 8 car. $1\frac{1}{2}$. Sterling Value 16s. $7\frac{1}{4}d$.

A TABLE SHEWING THE VALUE OF GOLD.

At £3 : 17 : 10½ per Ounce.

Pounds.				Ounces.				Grains.				
lb.	£	s.	d.	oz.	£	s.	d.	gr.	£	s.	d.	10000P.
1	46	14	6	1	3	17	10½	1	0	0	1¼	7875
2	93	9	0	2	7	15	9	2	0	0	3¼	5750
3	140	3	6	3	11	13	7½	3	0	0	5¼	3625
4	186	18	0	4	15	11	6	4	0	0	7¼	1500
5	233	12	6	5	19	9	4½	5	0	0	9½	9375
6	280	7	0	6	23	7	3	6	0	0	11½	7250
7	327	1	6	7	27	5	1½	7	0	1	1½	5125
8	373	16	0	8	31	3	0	8	0	1	3½	3000
9	420	10	6	9	35	0	10½	9	0	1	5½	875
10	467	5	0	10	38	18	9	10	0	1	7¼	8750
11	513	19	6	11	42	16	7½	11	0	1	9¼	6625
12	560	14	0					12	0	1	11¼	4500
13	607	8	6					13	0	2	1¼	2375
14	654	3	0					14	0	2	3¼	2250
15	700	17	6					15	0	2	5	8125
16	747	12	0					16	0	2	7	6000
17	794	6	6					17	0	2	9	3875
18	841	1	0					18	0	2	11	1750
19	887	15	6					19	0	3	0¼	9625
20	934	10	0					20	0	3	2¼	7500
21	981	4	6					21	0	3	4¼	5375
22	1027	19	0					22	0	3	6¼	3250
23	1074	13	6					23	0	3	8¼	1125
24	1121	8	0									
25	1168	2	6									
26	1214	17	0									
27	1261	11	6									
28	1308	6	0									
29	1355	0	6									
30	1401	15	0									
40	1869	0	0									
50	2336	5	0									
60	2803	10	0									
70	3270	15	0									
80	3738	0	0									
90	4205	5	0									
100	4672	10	0									

Pennyweights.				
dwt.	£	s.	d.	10P.
1	0	3	10½	9
2	0	7	9¼	8
3	0	11	8	7
4	0	15	6¼	6
5	0	19	5½	5
6	1	3	4¼	4
7	1	7	3	3
8	1	11	1½	2
9	1	15	0½	1
10	1	18	11¼	0
11	2	2	9½	9
12	2	6	8½	8
13	2	10	7¼	7
14	2	14	6	6
15	2	18	4¾	5
16	3	2	3½	4
17	3	6	2¼	3
18	3	10	1	2
19	3	13	11¼	1

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THE END.