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Student Notebook, Arithmetic Measures

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Blue Hill Academy

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64224
6
385344

68457
8
547672

646246
7
4523722

74326
246
445956

27304
148652
182841 76

Leather
12764
342
4365288

Stove
24567
123
3021741

Mr
12434
432
5371488

12345
246
3036870

45678
333
15210774

Mr Martin

23243
2002
46486
4648600
4653286

23456
1003
7068
2345600
2346068

345567
1001
34567
13826800
138302567

70012
1003
81037801
8111288378

701231
1231
702462
1231
2324361

A man has an estate on which he
360 bushels of wheat and he has
Another on which he raised 6 times
as much what quantity did he raise
on both of them, 360
6
2160
360
2520

A man had an estate which among 7 sons
as follows viz to the first eight he gave
333 dollars each: to the ninth he gave as many
1000 dollars as to the other eight & a man
the value of the whole estate; and also the 7 sons share.

333
8
2664
1000
3664 8 sons share

7 sons 1 64
8 sons 1 64 4322 whole estate

A man sheared 364 sheep six years successively each sheep
mated 3 pounds of wool per year: how much wool had
he yearly; and how much six years.

364	
3	
year 1092	
6	
6 years 6552	

I sold 342 tons of iron at
142 Dollars per ton I demand the price of
the whole.

342
142
684
1368
342
48564

I sold 742 thousand of
boards in the West at 62 Dollars
per thousand what did they
come to

742
62
1484
4452
46004

What will 6422 qintals of fish
come to at 6 per qintals.

6422
6
38532

A man traveled 26 days and each day he traveled 37
mils what distance did he trave in the whole time

37
26
222
74
962

Long Division.

Dividend

Divi 16)3721491(232593 Quotient
32
52
48
41
32
94
80
149
144
51
48
3 Remain

24)3102134(129255
24
70
48
222
216
61
48
133
120
134
120
14

2e tient

222)1432400(6452
1332
1004
888
1160
110
500
444
56

Divis
5566)7895681(1319
5566
17716
16698
10988
5566
54221
50094
4127 Remainder

112)2045600(22742
1824
2216
1824
3920
3648
2720
1824
896

March the 30 1805

2045600(2242

2345)5432140(2316
4690
7421
7035
3864
2345
15190
14070
1120

203)9400032(46305
812
1280
1218
620
609
1132
1015
117

4211)9320143(2213
8422
8981
8422
5594
4211
13833
12633
1200

9760)6041231(618
58560
18523
9760
87631
80080
7551

Practical Jestions in Divisn

A man had an estate valued at 2474 Dolls. and it was divided egaly between twelve sons I demand the shoare of each. 12)2474(206 2/12
24
74
72
2

If a tax of 40000 dollars were to be liived upon 1200 polls I demand what one poll pay. 1200)40000(33 400/1200
36
40
36
4

Devide 1474 dollars ~~egaly among 35 men~~ ~~vote to be liven~~ 30 boys 17 women and 27 girls: after taking out 75 Dollars for a presant to nephew.
25
30
17 1474
27 75
77)1397(14 39/77
77
607
396
13

Sexty men at a feast wich lasted 3 days spent 240 dollars per day how much did each man spend per day and how much ~~did~~ in the whole? 60)240(4 3/60
24

Divide 247600 pounds of beef egaly among an army of 23724 men 23724)247600(10 10360/23724
237240
10360

Divide 151200 lbs of beef equally among an army consisting of 27 regiments each regiment 7 companies and each companies 100 men.

27
7
189
100
18900) 151200 lbs (8 lbs Ans
151200
...

If 1050 Dollars are given for 750 barrels of flour, I demand the price of one barrel 75) 1050 (14 Ans
75
300
300

If 45 horses were sold in the W Indies for 2700 Dollars, I Demand average price. 45) 2700 (60 Ans
270
270
...

Short Division

Examples

2) 123 / 61 1/2

3) 4567 / 1522 1/3

4) 61234 / 15308 2/4

4) 1234567 / 308641 3/4

6) 64267 / 10711 1/6

7) 12345 / 1763 4/7

8) 43213 / 5401 5/8

9) 7642371 / 849152 7/9

Compound Division

Compound Addition

American Money

10 Mills make 1 Cent
10 Cents " - - - 1 Dime
10 Dimes " - - - 1 Dollar
100 Cents " - - - 1 Dollar
10 Dollars " - - 1 Eagle

E	D	cent	m
1	26	8	7 6 4
	21	4	3 2 1
	2	3	4 5 6
	22	4	3 2 4
1	73	0	8 6 5

E	D	cent	m
1	234	4	4 3 6
	321	3	4 6 5
	464	5	4 3 2
	364	6	3 4 1
2	384	9	6 7 4 Ans

D	cent	m
4567	77	8
4347	86	7
7451	75	6
3321	99	4
19689	41	5 Ans

Practical Questions Money

(1) Add together $21.71 cents: $63.42 cts $84.96 cts

$	cts
21	71
63	42
84	96
170	09 Ans

(2) A owes me $91.64 cent 1 m B $102.75 cent and C $21.72 cent what do they all owe me?

D	cent	m
91	64	3m
102	75	
21	72	
215	81	7 Ans

(3) A owes B $91.73 cent C 112.41 cent and $119.91 cent I demand what he owes to B C and D

D	cent	m
91	73	
112	41	
119	91	
324	05	Ans

A has a demand upon B for $642.20 cts upon C for 211

and upon D $750.74 cents I demand the sum of his due

642.20
211.
750.70
1605.10 cents

A former sold 3 yoke of oxen for one yoke he received $106

one $117.75 cent and one $75.55 cent what did they all

come to. 106. cent
117.75
75 55
318.30 Dlrs

What is the value of 3 ships valued as follows viz one $4750

one $6742 and one $7891 4750
6742
7891
19383 Dlrs

Troy Weight

24 Grains make 1 Penny weight

20 Penny weight 1. Ounce

12 Ounces 1 Pound

lb oz pwt gr
245.10.19.23
146.11.16.20
145. 2. 0. 7
538.0.17.2

lb. oz pwt gr
2345.11.19.23
123. 7. 8. 9
34. 5.16.17
2504.1. 5. 1

Examples

A man two wedges of gold one weighing 25 lb. 3 oz 12 pwt. and one the other weighing 1 lb 11 oz. 12 pwt. 7 gr. I demand the weight of the two wedges

lb oz pwt gr
25.3.12
1.11.12.7
27.3.4.7

8a

What is the weight of the following silver articles viz one spoon weighing 1 lb 1 oz 19 pwt one tankard weighing 4 lb 6 oz one basin weighing 1 lb 10 oz 19 pwt

1 " 1 0 " 19
4 " 6
1 " 10 " 19
8 " 3 " 18

Avoirdupois Weight

16 Drams make 1 Ounce
16 Ounces " 1 Pound
28 Pounds " 1 Quarter
4 Quarters " 1 Hundred
20 Cwt " 1 Ton

Examples.

Tons	cwt	qrs	lbs	oz	dr
444 =	12 =	1 "	12 "	2 "	13
91 =	11 =	6 "	10 "	12 "	13
123 =	19 =	3 "	12 "	15 "	15
610 "	3 "	1 =	7 "	15 "	7 Ans

Tons	cwt	qrs	lbs	oz	dr
123 "	12 "	2 "	22 "	12 "	12
321 "	19 "	3 "	27 "	15 "	15
191 "	12 "	2 "	19 "	11 "	12
637 "	5	1 "	14 "	6 "	7 Ans

Practical Questions in Avoirdupois Weight.

Add together the following sums viz 12 cwt 2 qrs 17 lb 1 Ton 19 cwt 3 qrs 27 lb 15 oz 15 dr and 2 tons 12 cwt 2 qrs 20 lb 12 oz

Tons	cwt	qrs	lbs	oz	dr
10 obs	1	2 "	1	2 "	2
		1 "	1	2 "	3
			1	2 "	2
5 "	5 "	1 "	9 "	1	2 " 7

What is the weight of three hhd of sugar weighing as follows viz 1st 9 cwt. 3 qrs 12 lb the 2nd 10 cwt 1 qrs and 12 lb and the 3d cwt 3 qrs 27 lb.

9 " 3 " 12
10 " 1 " 12
8 " 3 " 27
27 " 0 " 23

Apothecaries' Weight

20 Grains make 1 Scruple
3 Scruples " 1 Dram
8 Drams " 1 Ounce
12 Ounces 1 Pound

Examples.

lb oz dr sc gr
23 " 6 " 7 " 2 " 19
10 " 5 " 4 " 1 " 10
11 " 0 " 3 " 2 " 11
45 " 1 " 0 " 1 " 0

lb oz dr sc gr
121 " 11 " 7 " 2 " 19
91 " 2 " 6 " 1 " 11
191 " 1 " 4 " 1 " 9
404 " 4 " 2 " 2 " 19 Ans.

Practical Questions in Apothecaries Weight

Add together 22 lb 0 oz 1 dr 2 sc 13 gr 12 lb 0 oz 1 dr 2 sc 13 gr and 22 lb 1 dr 1 sc 19 gr

lb oz dr sc gr
22 0 1 2 13
12 0 6 2 19
22 " 1 " 1 " 19
56 " 1 " 2 " 1 " 1

Add together 11 lb 11 oz 6 dr 2 sc 12 gr 21 lb 6 oz 6 dr and 122 lb 9 oz 2 dr 1 sc 12 gr

lb oz dr sc gr
11 " 11 " 6 " 2 " 12
21 " 6 " 6
122 " 9 " 2 " 1 " 0
156 " 3 " 7 " 1 " 2 Ans.

Long Measure.

Deg m fur rd yd in bar
122 " 68 " 6 " 30 " 15 " 10 " 2
211 " 10 " 4 " 20 " 15 " 9 " 1
31 " 6 " 2 " 39 " 14 " 2 " 2
21 " 37 " 3 " 4 " 2 " 1 " 2
386 " 59 " 1 " 16 " 8 " 0 " 1

246 " 7 " 39 " 4 " 2
213 " 6 " 11 " 2 " 1
12 " 4 " 31 " 2 " 2
149 " 2 " 2 " 4 " 1
611 " 5 " 25 " 3 " 0

Practical Questions in Long Measure

The distance from A to B is 3 miles 6 fur 27 rods from B to C is 1 league 2 miles 7 fur from C to D 27 lea 1 mi 2 fur 39 rods I demand the distance from A to D

	miles	fur	rods
	3	6	27
	1	2	7
	27	1	2	39
	30	2	0	26

A ship sailed south 6 lea 1 mile S. S. E. 9 lea. 2 mi. 6 fu 39 rds E. S. E.

21 lea. 1 mi 6 fu 7 rods what was the whole distance sailed

	mi	fur	rds
	6	1	
	9	2	0	39
	21	1	6	7
	37	1	7	6

Land or Square Measure

Acres	roods	rds	ft	inc
272	3	39	216	123
142	2	26	270	143
123	1	10	16	43
321	0	7	8	133
860	0	3	290	316

Acres	roods	rds
212	2	27
148	2	22
143	2	10
341	3	31
846	3	27

Practical Questions in Land or Square Measure

A man had several fields of land the 1st contained 27 acres 3 roods the 2d 19 acres 2 roods 27 rods 17 feet and the 3d 6 acres 2 roods 39 rods I demand the quantity in the 3d fields.

Acres	roods	rds	ft
19	2	27	17
6	2	39	
27	3		
54	0	26	17

A in all together 64 acres 2 roods 17 rods and 104 acres 2 roods 22 rods

	64	2	27
	104	2	22
	61	3	17
	231	0	28

Wine Measure.

Examples.

Tun	hhd	gal	qt	pt
1	4	32	1	2
	43	2	0	0
	32	1	1	1
		27	2	1
2	18	79	6	0

Pipes	hhd	gal	qt	pt
1	2	3	1	1
	43	1	41	2
		4	0	2
		3	1	1
1	7	5	1	1

Practical Questions in Wine Measure

What is the sum of the following parcels viz 12 gal 2 qr 1 pint; 12 gal 1 qt 2 pt 3 gal 3 qt and 1 hhd 3 gal 2 qt 1 pint

gal	qt	pt
12	2	1
12	1	
3		
27	3	
1	56	2	1

A merchant received from Lisbon 19 pipes 2 hhds 1 gal at one time 123 pipes 1 hhd 62 gal 3 qts 1 pint at another time 43 pipes 1 hhd 41 gal 2 qts and at another time he received 4 pipes 40 gal what did he receive in all.

Pipes	hhds	gals	qts	pts
123	1	62	3	1
43	1	41	2	0
4		40		
172	0	18	1	1

Mead Beer

MEASURE

Examples

Stowe
Stowe B

Practical Questions

hhd	gal	qts	pts
22	51	3	1
31	52	2	1
7	43	1	0
6	41	2	1
131	27	1	1

122	31	3	1
320	33	3	1
91	15	1	1
7	29	2	1
1145	2	3	0

in Ale and Beer Measure

Find together the following quantities of beer viz 33 hhd 51 gal 2 qts 4 hhd 52 gal 2 qts and hhd 16 gal 1 qt.

hhd	gal	qts
33	51	2
4	52	2
19	16	1
58	12	1

The following parcels of beer were sold by a merchant first 19 hhd. 27 gal 3 qts second 31 hhd. 21 gal 2 qts at the third time 11 hhd 6 gal 3 qts what was sold at the three times.

hhd	gal	qts
19	27	3
31	21	2
11	6	3
62	2	0

Solid Measure

1728 Inches . make . 1 Foot
27 Feet . " 1 Yard
40 Feet of round or } 1 Ton or Load
50 Feet of hewn Timber }

Ft.	tons.	ft	in
222	49	1721	
391	36	246	
26	41	1000	
9	36	1259	
581	14	770	

Yds	ft	in
234	26	1727
678	21	1672
565	20	1242
69	21	43
1549	9	1228

Practical Questions in Solid Measure

1st What is the sum of the three following sticks of timber viz the 1st 3 tons, 19 ft 1672 in the 2d 4 tons, 47 ft 1080 in the 3d 6 tons 40 ft 1001 in.

Tons	ft	in
3	19	1672
4	47	1080
6	14	1001
15	38	217

2d Add together the following parcels viz 29 tons 30 ft. 56 tons 39 ft 127 in 61 tons 19 ft. and 71 tons 27 ft 1647 inches—

tons	ft	in
29	30	
56	39	127
61	19	
71	27	1647
217	36	48

Wood And Bark Measure.

1728 Inches — make 1 Solid foot
16 Solid Feet 1 Foot of wood
8 Feet of wood 1 Cord
128 Solid Feet 1 Cord

Examples —

Cords	feet	in
9	127	1642
2	100	692
90	50	60
61	11	9
114	23	625

64	90	146
9	10	190
70	80	90
10	21	31
154	77	407

Practical Questions in Wood Bark

Add together the following parcels of wood viz. 64 cords 120 feet; 72 cords, 21 feet; and 122 cords. 64 cords 120 ft; 72 cords 21 ft; 22 cords 257 = 13

Add together 3 cords 4 ft of wood 12 sft. 6 cords 6 ft of wood and 12 sft 9 cords and 6 ft of wood together.

Cords	ft	sft
3	4	12
6	5	12
9	6	
20	0	8

Dry Measure.

Examples

Cha. bu. pks. gal. qts. pts.

5 5 4 9 4 2 = 3 2 " 2 " 1 " 2 " 0
5 2 3 1 2 = 3 1 " 0 " 0 " 3 " 1
2 1 3 " 2 0 " 3 " 1 " 2 " 0
4 2 0 1 " 1 " 2 " 0 " 1 " 1

0 1 7 0 " 2 4 = : 1 = 0 = 1 = 0

Dw. bu. pks. gal. qts. pts.

4 2 = 7 = 3 = 1 = 3 = 1
3 1 2 = 6 = 2 = 0 = 2 = 0
7 # 8 = 3 = 1 = 1 = 1 = 0
7 = 6 = 3 = 0 = 3 = 1

1 0 6 = 7 = 3 = 0 = 2 = 0

Practical Questions in Dry Measure

Add together the following parcels viz 1627 bushels 3 pks. 7 qts. 1 pt. 272 bu. 2 pks. 1 pt. 2471 bu. 1 pks. 2 qts 1 pt.

bus pks qts pt
1627 " 3 " 7 " 1
272 " 2 " 1
2471 " 1 " 2 " 1
5071 " 3 " 3 " 0

The following quantities of coal were sold to a Merchant viz 41 chaldron 30 bu. 3 pks. 5 chal. 35 bu. 1 pk and 60 chal. 7 bu. what was the quantity sold.

Cha bu pks
41 " 30 " 3
57 = 35 = 1
60 " 7 " 1
159 " 1 " 0

Cloth Measure.

F E qrs no
6 4 4 3 = 5 " 1
3 4 5 4 " 4 " 3
6 5 4 3 " 3 " 2
6 5 4 3 " 2 " 1
3 0 8 5 " 3 " 3

E E qrs no
2 4 4 " 4 " 3
3 1 2 " 3 " 1
1 2 1 " 1 " 2
2 0 0 " 3 " 3
8 7 7 " 3 " 1

Examples

E Fl qrs no
2 4 6 " 2 " 2
2 3 4 " 0 " 2
1 2 1 " 2 " 1
3 0 3 " 2 " 1
7 0 6 " 1 " 2

yds qr no
1 2 6 " 3 " 3
2 4 5 " 3 " 3
2 1 3 " 1 " 0
1 2 3 " 1 " 3
7 0 9 " 2 " 1

Practical Questions in Cloth measure

Add together the following pieces of cloth viz 29 yds. 3 qr. 3 no. 30 yds 1 qr. 3 no. 36 yds 1 qr. 1 no. and another piece containing as much as all the others.

yds qr no
2 7 " 3 " 2
3 0 " 1 " 3
3 6 " 1 " 1
3 5 " 1 " 0
1 9 3 " 1 " 0

How many French ells in the following pieces of cloth viz first 22 yr. 3 na. second 31 yr. 1 na. third 50 yr. 2 na. and the fourth 71 yr 1 na.

yrs.	na
22	3
31	1
50	2
71	1
173	3

Time

L yrs	mon	we	how	min	S
123	11	0	6	23	59
123	11	1	4	21	20
171	12	3	2	11	12
251	11	1	2	1	0
691	7	3	2	18	52

t yrs	mon	how	min	S
12	12	27	23	57
19	7	4	11	12
21	4	6	1	10
91	2	4	6	9
95	2	14	18	31

Practical Questions in Time.

If I be together 12 years 6 month. 3 we. 6 D. 23 ho 12 mi 12 S 49 years. 5 mo. 2 we 4 days 12 hour. 7 mi. 1 year. 7 mon 1 year. 7 mo. 1 w. 1 D. 1 ho. 6 min.

years	mon	h	m	S
12	6	23	12	12
49	5	24	1	7
1	7	1	1	6
63	8	3	52	25

Add together 21 year 7 month. 6 D. 31 year 6 mo. 21 D. 6 year 4 mo. 7 w and 12 year. 7 mo. 11 D.

years	mo	D
21	7	6
31	6	27
6	4	7
12	7	16
72	1	18

Compound Subtraction

Examples.

Dolls	cts	m
1241	72	7
992	81	8
248	92	1

Dolls	cts	m
4312	27	7
704	21	6
3608	8	1

1000	00	0
999	99	9
		1

Practical Questions American Money

A man lent a C. 3 dolls 3 cents received a C. 2 dolls 7 cts 9 mills. How much remains due.

C	dolls	mill
3	3	3
2	2	9
1	0	3

A man had an estate valued at 3505 dolls 6 cent 2 m. had three sons to each of whom he gave 504 dolls. 5 cts. 2 m. he also to two daughters 75 dolls. 75 cts. each. What had he left.

	Dolls.	cts.	m
	504	5	2
	504	5	2
	504	5	2
	75	75	
	75	75	
	1662	65	6

	Dolls	cts	m
	3505	6	3 2
	1663	6	5 6
	1841	7	7 6

Ans

A man was worth 1472 dolls 65 cts by a misfortun at sea he lost 454 dolls 75 cts what was he worth after he sustained the loss.

Dolls	cts
1472	65
454	75
1017	90

Troy Weight.

lb	oz	pwt	gr
223	10	17	22
124	11	12	23
98	11	6	23

lb	oz	pwt	gr
3123456	7	6	12	20
1343218	10	1	3	22
1780247	8	7	18	22

Practical Questions in Troy weight

A person had a basin which weighed 3 lb. 10 oz. It being melted in part it there was again and its weight was 2 lb. 11 oz. 7 pwt 4 grs. what was melted off.

lb	oz	
3	10	pwts
2	11	7 4
1	0	12 20

How much silver must be given in exchanging a silver plate for a platter the weight of the platter being 2 lb. 10 oz. and the weight of the plate 1 lb 4 oz 7 pwt?

lb	oz	
2	10	pwt
1	4	7
1	5	13

Avoirdupois Weight

T	cwt	qr	lb	oz	dr
1	2	1	9	2	7
	9	1	8	3	2
	3	0	3	2	1

T	cwt	qr	lb	oz	dr
134	19	3	20	13	12
94	1	9	2	1	14
37	1	3	0	26	14

Practical Questions in avoirdupois weight

A merchant had 31 cwt. 2 qr. 21 lb. of sugar he sold to A. 11 cwt. 1 qr. and to B. 13 cwt. 2 qr. 17 lb. what had he left?

cwt	qr	lb
31	2	21
20	3	17
4	3	4

A merchant had 15 T. 3 qr. 27 lb. of sugar it was all stolen but 1 cwt 1 qr 8 lb I demand the quantity stolen.

19 cwt. 2 qr. 17 lb.

I bought 27 cwt. 2 qr. 17 lb. of flour and sould 19 cwt 3 qr. 27 lb what remained on hand

cwt	qr	lb
27	2	17
19	3	27
7	2	20

Apothecaries' Weight.

lb	oz	dwt	grs
14	10	6	2 19
6	11	7	1 10
7	10	7	1 3

lb	oz	dr	cs	grs
123	6	1	1	19
74	11	6	2	17
28	6	2	2	2

Practical Questions

1 An Apothecary had 12 lb. 6 oz. 2 dr. of medicine in a certain vessel by accident it was broken and there remained in a broken piece of it 8 lb. 11 oz. 7 dr. 1 cs. 13 grs. I demand the quantity lost.

lb	oz	dr	cs	qr
12	6	2	0	0
8	11	7	1	13
3	6	2	1	7

2 What remains after taken in 19 lb. 6 oz. 3 dr. from 26 lb. 7 oz. 7 dr.?

lb	oz	dr
26	7	7
19	6	3
7	1	4

3 What is the difference between 119 lb. 6 oz. and 111 lb.

lb	oz
119	6
111	11
7	7

Long Measure

D mi fur rds ft in lb
27 " 59 " 6 " 30 " 15 " 11 " 2
2 " 27 " 7 " 35 " 13 " 1 2
18 " 31 " 6 " 35 " 2 " 2 " 0

M. fur rds ft in bar
224 " 3 " 21 " 13 " 1 " 1
95 " 6 " 32 " 14 " 9 " 2
128 " 1 " 28 " 14½ " 2

Practical Questions in Long Measure

Subtract 24 mi. 3 fur. 26 rds. from 26 mi and show the difference

	mi	fur	rds
	26	0	00
	24	3	26
	1	4	14

Express the difference between 200 mi. 6 fur. 22 rds. and 150 mi. 7 fur. 2 rds 4 yds. 2 ft. 1 bar.

mi	fur	rds	yd	ft	in	bar
200	6	22	0	0	0	0
150	7	2	4	2	0	1
47	7	26	0	0	11	2

Express the difference between 7 lea. 2 mi 6 fur 27 rds and 5 lea. 1 mi. 7 fur 30 rds.

lea.	mi.	fur	rds
7	2	6	27
5	1	7	30
2	0	6	37

A man agreed with another to go 51 mi. 4 fur and he went 60 mi 2 fur. how much further did he go than he agreed to?

mi	fur
60	2
51	4
8	6

Landor Square Measure.

Acres rood rds ft in
126 " 1 " 39 " 16 "
11 " 2 " 3 " 20 " 14 "
13 " 2 " 9 " 2

A rood rds ft in
2756 " 1 " 12 " 10 " 11
1367 " 2 " 22 " 9 " 7
1088 " 2 " 30 " 7 " 4

Practical Questions in Square Measure

A man had 3472 feet 142 in. of boards he sold 1247 feet 126 in. what had he left

ft	in
3472	142
1249	126
2223	16

A mans farm contained 246 acres 1 rood 7 rds he sold to A 27 acres 2 roods 1 rod to B 37 acres 37 rds and to C 50 acres 2 roods how much had he left

acres	rood	rds
246	1	7
27	2	1
37	0	37
50	2	
117	1	0
127	0	7

A man 700 Acres of land and he had four sons to the eldest he gave 60 acres 2 roods and to the second third and fourth he gave half as much to each as he did to the first had he left.

Acres	roods
700	0
60	2
30	1
30	1
30	1
151	1
548	3 Perch

Wine Measure

Tun	gal	qts	pt
1234	5	0	3 1
1094	7	5	2 0
1397	7	7	1 1½

Phd	gal	qts	pts
23	1	60	2 1
17	0	59	3 0
41	0	3	1

Practical Questions in Wine Measure

A wine seller bought 22 hhd. 54 gal of wine he sold 12 hhd 60 gal I demand the quantity unsold

hhd	gal
22	54
12	60
9	57

A bought 247 gal. 3 qts 1 pt of rum and he sold from it 198 gal. 2 qts how much had he left?

gal	qts	pt
247	3	1
198	2	
49	1	1

I demand the diference between 3 pipes 1 hhd 54 gal and 1 pip 1 hhd 61 gal

pip	hhd	gal
3	1	54
1	1	61
1	1	54

Solid Measure

H tons	ft	in
246	41	1720
179	46	1723
67	2	1725

H tons	ft	in
12	16	1111
9	49	1727
2	16	1112

Practical Questions in Solid Measure

A man 249 tons 12 ft of round timber lying in the dock in a high tide part of it went a drift there remains in the dock 142 tons 12 ft 1721 in I demand the quantity lost.

Tons	ft	in
249	12	0
142	12	1721
106	39	7

What is the difference between 49 tons 39 ft. and 27 tons 38 ft 1272 in?

T	ft	in
49	39	0
27	38	1272
22	0	464

A stone cutter had on hand 1427 feet of stone he sold 192 1427 ins. I demand quantity unsold.

ft	in
1427	0
192	1427
1234	301

Wood Measure.

Cords	sd ft
1346	127
1297	121
49	6

Cords	sd ft
1327	120
1317	101
8	19

Cords	sd ft
2466	11
1341	125
1114	14

Practical questions in Wood Measure

A wood seller bought 127 cords of wood 120 ft. and sold 100 cords 101 solid feet how much had he left.

Cords	sd ft
127	120
100	101
27	19

A master freighter his vessel 65 cords 118 solid ft of wood in a storm he was lighted by throwing wood overboard when she arrived in port there was but 21 cords 106 solid ft on board I demand the quantity lost.

Cord	ft
65	118
21	106
44	12

What is the difference between 27 cords 104 ft and 19 cords 125 ft.

cords	ft
27	104
12	125
7	107

Dry Measure

chal	bu	pks	gall	pts
224	30	2	1	3
19	35	3	0	2
204	30	3	1	1

chal	bu	pks	qts	pts
3456	27	3	6	0
1967	30	2	7	1
1488	33	0	6	1

Practical Questions in Dry measure

What is the difference between 7753 chaldrons 13 bushels and 3789 bush 35 bushels

chal	bus
7753	13
3789	35
163	14

A merchant in boston had a vessel coming from Virginioc freighted with 2478 bus 3 pk of corn in a storm she was lighted by throwing corn overboard on he he arrival in port she had 2027 bushel 1 pks on board I demand the quantity lost.

bush	pks
2478	3
2027	1
451	2 Ans

Cloth Measure

Yds	qr	na
12	4	3
9	5	3
2	5	0

Ells	qr	na
21	4	3
18	3	3
2	1	0

yds.	qr	na
121	4	3
109	2	3
12	0	3

Practical Questions in Cloth measu

A dealer in cloths had 3 pieces containing in all 80 yards 3 qrs he sold 51 yds. 3 qrs 3 nails I demand what he had left.

yds	qrs	nls
80.	3.	0
51	3.	3
28	3.	1

A merchant bought 6 pieces of cloth each piece containing 29 yds 3 qrs. 3 nails two pieces sold how many yds had he left.

yds	qrs	nls
26.	3.	3
26.	3.	3
26.	3.	3
26.	3.	3
26.	3.	3
20.	3.	3
161	2	2
26.	3	3
26	3	3
53	3	2
107	1	qrs

Of Time

Ld	yea	mo	we	da	ho	mi	se	yds	h
	21	12	3	6	12	21	22	125	33 1 12
	19	10	2	5	15	30	40	103	33 2 1
	2	2	1	0	20	50	42	15	356 15

Practical Questions in Time

A man hired a servant for 6 years 4 months 3 weeks 6 days and he stayed 7 years 6 months 3 weeks how much longer did he stay than he agreed to.

yrs	mo	we	d
7	6	3	0
6	4	3	6
1	1	3	1

What is the diferenc betwene 21 years 6 mo 3 weeks 4 days 12 hour and 19 years 9 mo 2 we 6 da 21 hour.

years	mo	we	d	hour
21	6	3	4	12
19	9	2	6	21
1	10	0	4	15

Cash

a wood seller

100 cords 107 [illegible] difference of time betwene the 16th day of [illegible] and the 17th day of may 1806?

	year	mo	da
	1806	5	17
	1800	2	16
	6	3	3

How long between the 16th day June 1729 and the 30th Day August 1806 inclusive

	years	mo	days
	1806	8	0
	1729	5	15
	77	2	15

I was born 7th day of May 1777 what is my age it being the 20th day of June 1810?

	years	mo	days
	1810	1	20
	1777	0	7
	33	1	13

A gave B his note on interest dated the 21st of August 1804 on the 29 Day of November 1809 the note was paid I demand the time that the note was at interest.

	year	mo	da
	1809	3	8
	1804	0	0
	5	3	8

Addition of Decimals

27.123	341.346	74.789	7.123
1.0341	91.2	7.61741	1.2
.1345	2.023	.214	10.32
28.3716	434.569	82.62041	18.643

Practical Questions

Add 504.22, 64.1, 23.09, and 55.6 together.

504.22
64.1
23.09
55.6
647.08

Add $1327.64 cents $2341.96 cents 9 mills and 1572.21 cents together.

1327.64
2341.967
1572.21
5241.817

46.967
6.01
.946
53.923

Subtraction of Decimals

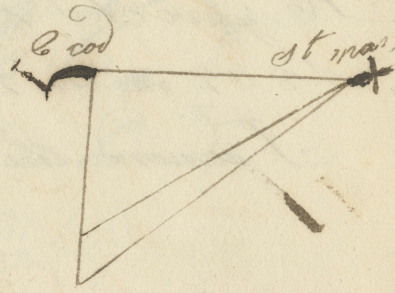
234.101000	91.91000	141.1	7.000041
145.164321	81.112534	98.3	5.119864
88.936679	10.797466	42.8	1.880177

Multiplication of Decimals.

{Examples}

11.23
11 7.8
8984
7861
1123
1123
1292.894 pro

.1213
.1321
1213
2426
3639
1213
.01009373 product



1.23
1.78
984
861
123
2.1894

10.4
123
312
208
104
1279.2

123
1.45
615
492
123
178.35

.002
.661
002
012
012
.01322

How much is the product of 29.5 multiplied by .96

29.5
.96
1770
2655
28.320

How much will 1000 pounds of butter come to at 11¢ per pound?

1000
11¢
500
1000
1000

How much will 64.5 bushels of corn come to at $1.12 cts per bushel. 64.5
1.12
1290
645
645
72.24.0

Division of Decimals

Example.

It is required to divide 34.21 by 12.1

.101)1.30 2.100(12891.089
101
II sum 292
202
900
808
920
909
110
101
901
808
920
909
11 Remainder

12.1)34.21(2.8 tons
242
I sum 1001
968
33 Rem

III sum 1320)263.146(.199466/1320
1320
13114
11880
12346
11880
466

IV sum 333)456 7(01 13 238/333 .111).07912(.71 21/111
333
1237
999
238 Remainder

777
V sum 142
111
31

Reduction of Decimals

Examples

1 Reduce $\frac{5}{6}$ to the decimal of the same value. 6)5.000
.833+

2 Reduce $\frac{1}{2}$ to a decimal of the same value 2)1.0
.5 Ans

3 Reduce $\frac{1}{4}$ to the decimal of the same value 4)1.00
.25

4 Reduce $\frac{3}{4}$ to the decimal of the same value. 4)3.00
.75

Case II

Reduce 16 gr. 12 part to the decimal of a pound Troy weight

24	16.0000
20	12.6666+10
12	0.6333+6
	.1527 Ans

Reduce 6 oz. 12 part 5 gr. 11 m. to the decimal of a pound Troy Weight

24	15,000
20	12.6257+10
12	6.6312
	.5256 Ans

Reduce 2 cwt. 3 qr 12 lb 12 oz 1 dr to the decimal of a ton Avoirdupoise weight.

16	11,0000
16	12,6875
28	12,77227+
4	3.45568+
20	2,86422
	1432+ Ans

Reduce 3 qr. 3 na. to the decimal of a yard Cloth measure

4	3,0000
4	3,7500
	.7375

Reduce 2 mil. 6 fur. 20 rods. 12 ft 6 in. 2 bar

3	2.000
12	6,666
16½	12,555
40	2,976.0
8	6,519
3	2,81477
	23.82 Ans

Reduce 3 ~~roods~~ 30 ~~Rods~~ 29 yds to the Decimal of an acre Land measure.

30	2.2.0 0
40	3,0 5 9
4	3,7 7 3 9
Ans.	9 4 3 4+

Reduce 5 C yal 3 qr 1 pt to the decimal of a hhd allowing 63 gallons to a hhd

2	1.0
4	3, 5 0 0
63	56, 8 7 5
Ans	9 0 2 7

Reduce 39 ft 1727 inches to the Decimal of a ton of round Timber.

1728	1727.00
40	39.9900
Ans	9999

Reduce 1 qr 2 qr 1 pt to the decimal ~~to the~~ of a chaldron.

2	1.0
8	2. 5 0 0 0
4	1, 3 1 2 5
36	32.81-1
	0 0 0 1

Reduce 12 months, 3 weeks 6 days, 23 hours 59 minits 12 seconds to the decimal of a year.

60	12-0
60	59.2.0 0 0
24	23,7 8 6 6+40
7	6,9 9 4+10
4	3,9 9 9 9+1
13	12,9 9 9 9+3
Ans	9 9 9 9+12

Reduce 1 pt to the decimal of a hhd Wine measure.

2	1.0
4	0.5 0 0
63	0, 1 2 5
Ans	0 0 1 9+53

Reduce 1 week to the decimal of a year allowing 13 months to a year.

4	1.0 0
13	0.2.5 0 0
Ans	0 1 9 2 3

Reduce 1 minute to the decimal of a year 360 days to a year.

60	1.0 0
24	0 0 1 0 0
7	0 0 0 0 4
52	0 0 0 0 0 5
360	0 0 0 0 0 0 0 7
Ans	0 0 0 0 1 9

Coin III

Examples

Required the value of ,0627 of a pound Troy weight.

6,0627
12
lbs 72,7524
20
oz 12,6480
24
dwt 15,5520
lbs 12 = 1 lb Troy

Required the value of ,5526 of a pound Troy weight

,5526
12
lbs 6,6312
20
oz 6,6240
24
dwt 15,9760
6 lbs 12 oz 14 dwt

What is the value of a Ton ,1432

,1432
20
cwt 2,8640
4
qrs 11,4560
28
lbs 320,7680
20
oz 6412,3360
16
dr 102597,3760
2 cwt 3 qrs 12 lb 12 oz 4 dr

What is the value of ,9017 of a lb Troy Apothecaries weight

,9017
12
oz 10,8204
8
dr 86,5632
3
sc 259,6896
20
dwt 5193,7920
10 oz 6 dwt 1 gr 1 scr

What is the value of ,2376 of a yard Cloth measure

2376
4
qrs 9504
4
nails 38016
Ans 3 3

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