



Henry Ferguson

Henry Ferguson

Mr Leroy Stuart

Henry Ferguson

Book

1775

August
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October
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November
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December
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15
16
17
18
19
20
21
22
23
24
25
26
27
28
29
30
31

Mr Thomas
of
Shrewsbury

Contents

February

Single Rule of Three	Promiscuous Examples	Page 1
Double Rule of Three		Page 2
	Inverse Proportion	Page 5
	Promiscuous Examples	Page 6
Practise		Page 7
Practise		Page 8
	Examples	Page 12
	Application	Page 13
Land and Tithes		Page 15
Simple Interest		Page 18
Insurance Commission and Brokerage	Examples	Page 25
Compound Interest	Examples	Page 26
Discount	With Examples	Page 28
Barter	With Examples	Page 30

Fellowship

Page 37

Exchange

With Examples

Page -- 42

Foreign Exchange

COMMON

Page - 43

Vulgar Fractions

EXERCISES

Page

[Handwritten scribbles and diagrams on the left page, including a large triangle and various lines.]

Answers

Miscellaneous Examples

No 1 Calculate the Value of 26 1/2 yards of linen at 5 Shillings and 6 pence per yard

[Handwritten calculation for No 1: 26 1/2 x 5 = 132 1/2, 132 1/2 x 6 = 795, 132 1/2 + 795 = 927 1/2]

No 2 Purchased 156 pounds of Soap for 143 Shillings 60 Cents What must the price per pound be

[Handwritten calculation for No 2: 143 60 / 156 = 92 1/2]

No 3 Had many yards of cloth 3 quarters of a yard wide are equal in measure to 30 yards of 1/2 quarter wide

[Handwritten calculation for No 3: 30 x 3/4 = 22 1/2]

No 4 Bought 27 1/2 yards of muslin at 6 Shillings 9 pence per yard what does it amount to

[Handwritten calculation for No 4: 27 1/2 x 6 = 165, 165 x 9 = 1485, 165 + 1485 = 1650]

No 5 In what time will 600 Dollars gain the interest which 30 Dollars would gain in 15 years

[Handwritten calculation for No 5: 600 / 30 = 20, 20 x 15 = 300]

No 6 What quantity of wine at 6 Shillings per gallon may be bought with 120 Shillings

[Handwritten calculation for No 6: 120 / 6 = 20]

No 7 If 1 hundred weight of sugar cost 10 Shillings and 50 cents what must be paid for 17 cwt 3 qrs 14 pounds

[Handwritten calculation for No 7: 100 x 10 50 = 1050, 17 x 10 50 = 180 50, 14 x 10 50 = 147 00, 1050 + 180 50 + 147 00 = 1377 50]

[Faint handwritten notes and calculations at the bottom of the right page.]

Continued

No 8 A stein has a pipe which will empty it in 10 hours how many pipes of the same capacity will empty it in 30 minutes?

$$\begin{array}{r} \text{min} \quad \text{hr} \quad \text{min} \\ 30 \quad 00 \quad 00 \\ 10 \quad 00 \quad 00 \\ \hline 3 \end{array}$$

No 9 How many yards of paper 24 feet wide will be required to cover a wall which is 12 feet long and 9 feet high

$$\begin{array}{r} 9 \text{ ft} \quad 2 \frac{1}{2} \quad 12 \\ 24 \text{ ft} \quad 4 \quad 4 \\ \hline 10 \text{ yds} \\ 24 \times 9 = 216 \\ 24 \times 12 = 288 \\ \hline 504 \\ 10 \overline{) 504} \\ 504 \\ \hline 0 \end{array}$$

No 10 If 12 oz of spice cost 6 1/4 pence what will 1/2 lb cost at the same rate

$$\begin{array}{r} 12 \text{ oz} \quad 6 \frac{1}{4} \\ 1 \text{ lb} \quad 25 \frac{1}{2} \\ \hline 1 \frac{1}{2} \text{ lb} \end{array}$$

No 11 What is the value of a piece of cloth containing 52 English ells 3 quarters at one dollar 76 cents per yard

$$\begin{array}{r} 52 \text{ ells} \quad 3 \text{ qts} \\ 1 \text{ yard} \quad 1.76 \\ \hline 91.52 \end{array}$$

Two Inverse Proportion

No 10 How many yards of carpeting that 3 yds wide are sufficient to cover a floor that is 18 feet wide and 60 feet long

$$\begin{array}{r} 3 \text{ yds} \quad 3 \quad 18 \\ 18 \text{ ft} \quad 6 \quad 60 \\ \hline 36 \text{ yds} \end{array}$$

No 11 If a board be 9 inches broad how long must it be measured square feet

$$\begin{array}{r} 9 \text{ inches} \quad 12 \text{ in} \\ 1 \text{ sq ft} \quad 144 \\ \hline 16 \text{ ft} \end{array}$$

No 12 How much in length that is 48 inches will make 64 square feet

$$\begin{array}{r} 48 \text{ inches} \quad 12 \text{ in} \\ 64 \text{ sq ft} \quad 48 \\ \hline 18 \text{ ft} \end{array}$$

Double Rule of Three Direct

No 4 If 10 bushels of oats be sufficient for 14 horses 20 days how many bushels will feed 60 horses 36 days at the rate

$$\begin{array}{r} 10 \text{ bushels} \quad 14 \text{ horses} \quad 20 \text{ days} \\ 60 \text{ horses} \quad 36 \text{ days} \\ \hline 216 \text{ bushels} \end{array}$$

No 5 If 7 quarts of malt are sufficient for a family of 7 persons 4 months how many quarts will 40 persons use in 10 months

$$\begin{array}{r} 7 \text{ quarts} \quad 7 \text{ persons} \quad 4 \text{ months} \\ 40 \text{ persons} \quad 10 \text{ months} \\ \hline 280 \text{ quarts} \end{array}$$

No 6 Suppose the wages of 6 persons for 21 weeks be 24 dollars what was 10 persons received for 46 weeks

$$\begin{array}{r} 6 \text{ persons} \quad 21 \text{ weeks} \quad 24 \text{ dollars} \\ 10 \text{ persons} \quad 46 \text{ weeks} \\ \hline 132 \text{ dollars} \end{array}$$

No 7 If 8 reapers have for 9 days 48 shillings for 4 days work how much will 48 men have for 16 days work

$$\begin{array}{r} 8 \text{ reapers} \quad 9 \text{ days} \quad 48 \text{ shillings} \\ 48 \text{ men} \quad 16 \text{ days} \\ \hline 192 \text{ shillings} \end{array}$$

No 8 If 100 pounds in 12 months gain 6 pounds interest how much will 200 pounds gain in 26 weeks

$$\begin{array}{r} 100 \text{ pounds} \quad 12 \text{ months} \quad 6 \text{ pounds} \\ 200 \text{ pounds} \quad 26 \text{ weeks} \\ \hline 12 \text{ pounds} \end{array}$$

No 9 If 100 pounds in 12 months gain 6 pounds interest how much will 75 pounds gain in 9 months

$$\begin{array}{r} 100 \text{ pounds} \quad 12 \text{ months} \quad 6 \text{ pounds} \\ 75 \text{ pounds} \quad 9 \text{ months} \\ \hline 4.5 \text{ pounds} \end{array}$$

December 17th 1827

Double Rule of Three Direct

No 9 If 100 pounds in 52 weeks
 gain 6 pounds interest how
 much will 200 pounds gain
 in 26 weeks

as	100	52	6	200	26
		52	100		
	200		460		
	500		5200		
	5200		31200	6	
			51200		

No 10 If the carriage of 8 cwt 129
 miles cost \$12.80 cents what
 must be paid for the carriage
 of 4 cwt 62 miles

as	8	129	12.80	4	62
	8	129	12.80		
	1024		129		
			10240		
			246		
			129		
	1024		163940	160	
			1024		
			6144		
			6144		

No 11 If 16 pounds 18 shillings be
 the wages of 16 men for 8 days
 what sum will 32 men earn
 in 24 years

as	16	18	8	32	24
	16	18	8		
	128		339	129	
			34		
			768		
			638		
			6244		
			2304		
			2304		
	128		259684	2028	
			246		
			668		
			246		
			1124		
			1024		

No 12 If 350 pounds in a half
 year gain 10 pound and
 10 shillings interest what will
 be the interest of 400 pounds
 for 4 years

as	350	6	10	400	4
	350	6	10		
	2100		210	1600	
			19200		
			210		
			192000		
			38400		
	2100		403200	920	
			2100		
			19320		
			18900		
			4E 88		

Inverse Proportion

No 1 If 7 men keep 84 acres of wheat
 in 12 days how many men can
 keep 100 acres in 5 days

84	5	7	100	12
5			100	
420			500	
			3400	20
			540	
			60	

No 2 If 4 Dollars be the hire of 8 men
 for 3 days how many days must
 20 men work for 40 Dollars

4	20	8	40	3
20			40	
80			320	
			760	12
			40	
			160	
			160	

No 3 If 4 men have \$3.20 cents for
 3 days work how many will
 earn \$12.80 cents in 16 days

3	16	4	12.80	3
4			12.80	
12			3840	
			4	
			340	
			5120	3
			360	
			5120	

No 4 If 4 reapers have 12 Dollars for
 6 days work how many will
 earn 48 Dollars in 16 days

4	16	4	48	3
6			48	
24			144	
			576	3
			48	
			576	

No 5 If 100 pounds in 12 months
 gain 6 pounds interest what
 sum will gain 3 pounds
 7 shilling and 6 pence in
 9 months

100	9	100	3	7	6
12			3	7	6
120			100		
			144		
			12960		
			12960		
			3720		
			64800	12	
			64800		

No 6 If a postman travel 240 miles
 in 12 days when the days are
 12 hour long how many day
 will he require to travel 720
 miles when the days are 16
 hours long

240	16	12	720	12
12			720	
1440			9640	
			240	
			3840	
			103680	27
			7880	
			26880	
			26880	

Inverse Proportion

No 7 If 100 pounds in 12 months gain 8 pounds 12 shilling in 5 months

100	12	8
160	5	17 1/2
800		206 1/2
		206 1/2

258 dms

No 8 If 200 pounds be carried 40 miles for 40 Cents how far may 30200 pounds be carried for 60.60

20200	40	60.60
808000		40
		480000
		480000
		48480000
		48480000

808000

Promiscuous Examples

No 1 If 4 men in 5 days eat 7 pounds of bread how much will suffice 16 men in 15 days

4	5	7
16	15	14
20		80
		16
		249

201690
84 dms

No 2 If 100 Dollars gaine \$350 Cents interest in one year and three months will gaine \$38.50 Cents in one year and three months Ans 880 Dollars

100	15	350
175	12	385
350		12
5250		100
		42000
		42000

42000

No 3 If it take 5 men to make 150 pair of shoes in 20 days how many men can make 1350 pair in 60 days Ans 60

5	20	150
150	60	1350
9000		150
		3000
		45000
		45000

45000

No 4 If the Wages of 6 men for 21 Weeks be 120 pounds What will be the wages of 14 men for 46 Weeks

6	21	120
126	46	140
		46
		644
		120
		120

120

No 5 If 333 pounds 6 shillings and 3 pence gaine 15 pounds interest in 9 months what sum will gaine 6 pound in 12 months

333	12	15
180	9	666
		3000
		3000
		40000
		40000

40000

No 6 A Wall which is to be built to the height of 27 feet has been raised 9 feet in 6 days but 12 men have many men must be employed to finish the work in 4 days

12	6	9
4	27	27
		18
		108
		108

30

Practice Examples

No 1 2 1/2 6192 Value of 1/4 of tape at 1/4 per yard

2 1/2	6192
1/4	1032
1/4	129
20	1161
	5804

No 2 4 1/2 5711 Value of 3/4 of sugar at 1/4 per pound

4 1/2	5711
3/4	1257
3/4	927
1/4	144
20	77
	396
	11946

No 3 2 1/4 3596 at 2 1/4

2 1/4	3596
1/4	599
	74
20	674
	3374

No 4 1 1/2 1861 at 1 1/4

1 1/2	1861
1/4	144
	38
20	173
	913

No 5 4 1/3 2333 at 4 1/2

4 1/3	2333
1/4	146
20	2479
	12377

7181 at 1/4
2093 8
898 5
20 2992 1
149112 dms

3768 at 7 1/2
10944 6

3762 at 1/6
1991
313 6
20 194 6
109 14 6

3747
1873 5
312 3
76 6 1 1/2
20 23 1 10 1/2
117 1 10 1/2 dms

4697 at 8
2348 6
782 10
20 373 1 1/2
156 11 4 dms

Practice

$\begin{array}{r} 7924 \text{ at } 10\frac{1}{2} \\ 39628 \\ 19814 \\ 3302 \\ \hline 20) 7924 \\ 31318 \text{ Ans} \end{array}$	$\begin{array}{r} 7736 \text{ at } 10\frac{1}{2} \\ 3848 \\ 1949 \\ 6498 \\ 32410 \\ \hline 20) 7736 \\ 34116 \text{ Ans} \end{array}$
$\begin{array}{r} 7790 \text{ at } 10\frac{1}{2} \\ 3895 \\ 19475 \\ 3895 \\ \hline 20) 7790 \\ 3895 \text{ Ans} \end{array}$	$\begin{array}{r} 3064 \text{ at } 11 \\ 1432 \\ 766 \\ 2444 \\ 2444 \\ \hline 20) 3064 \\ 1408 \text{ Ans} \end{array}$

Rule 4th December 26th 1827

$\begin{array}{r} 15 \text{ at } 13\frac{1}{2} \\ 110 \\ \hline 1610 \text{ Ans} \end{array}$	$\begin{array}{r} 7990 \text{ at } 11\frac{1}{2} \\ 7990 \\ 2630 \\ 1315 \\ 328 \\ 164 \\ \hline 20) 7990 \\ 6168 \text{ Ans} \end{array}$
$\begin{array}{r} 360 \text{ at } 10 \\ 360 \\ 600 \\ \hline 20) 360 \\ 2100 \text{ Ans} \end{array}$	$\begin{array}{r} 8909 \text{ at } 17 \\ 8909 \\ 22668 \\ 2225 \\ \hline 20) 8909 \\ 70418 \text{ Ans} \end{array}$
$\begin{array}{r} 1479 \text{ at } 14 \\ 1479 \\ 3699 \\ \hline 20) 1479 \\ 9289 \text{ Ans} \end{array}$	$\begin{array}{r} 7120 \text{ at } 20\frac{1}{2} \\ 7120 \\ 34600 \\ 11860 \\ 1484 \\ \hline 20) 7120 \\ 60160 \text{ Ans} \end{array}$
$\begin{array}{r} 7121 \text{ at } 16\frac{1}{2} \\ 7121 \\ 17808 \\ 35616 \\ 4944 \\ \hline 20) 7121 \\ 48230 \text{ Ans} \end{array}$	$\begin{array}{r} 1376 \text{ at } 21 \\ 1376 \\ 688 \\ 344 \\ \hline 20) 1376 \\ 1208 \text{ Ans} \end{array}$
$\begin{array}{r} 2349 \text{ at } 17\frac{1}{2} \\ 2349 \\ 780 \\ 195 \\ 976 \\ \hline 20) 2349 \\ 1774 \text{ Ans} \end{array}$	$\begin{array}{r} 6812 \\ 6812 \\ 2725 \\ 13625 \\ 5450 \\ 28010 \\ 14005 \\ \hline 20) 6812 \\ 3406 \text{ Ans} \end{array}$

Rule 5th December 27th 1827

$\begin{array}{r} 264 \text{ at } 22 \\ 264 \\ 528 \\ \hline 20) 264 \\ 396 \text{ Ans} \end{array}$	$\begin{array}{r} 713 \text{ at } 6\frac{1}{2} \\ 713 \\ 2139 \text{ Ans} \end{array}$
$\begin{array}{r} 486 \text{ at } 22 \\ 486 \\ 972 \\ \hline 20) 486 \\ 729 \text{ Ans} \end{array}$	$\begin{array}{r} 916 \text{ at } 8 \text{ Shilling} \\ 916 \\ 5668 \text{ Ans} \end{array}$
$\begin{array}{r} 121 \text{ at } 4\frac{1}{2} \\ 121 \\ 605 \\ \hline 20) 121 \\ 304 \text{ Ans} \end{array}$	$\begin{array}{r} 739 \text{ at } 12 \text{ Shilling} \\ 739 \\ 4438 \text{ Ans} \end{array}$
$\begin{array}{r} 1286 \text{ at } 4\frac{1}{2} \\ 1286 \\ 6430 \\ \hline 20) 1286 \\ 2474 \text{ Ans} \end{array}$	$\begin{array}{r} 179 \text{ at } 16 \text{ Shilling} \\ 179 \\ 13616 \text{ Ans} \end{array}$
$\begin{array}{r} 869 \text{ at } 7\frac{1}{2} \\ 869 \\ 4245 \\ \hline 20) 869 \\ 3010 \text{ Ans} \end{array}$	<h2>Rule 6th the Decem^r</h2>
$\begin{array}{r} 242 \text{ at } 11\frac{1}{2} \\ 242 \\ 1210 \\ \hline 20) 242 \\ 1332 \text{ Ans} \end{array}$	$\begin{array}{r} 379 \text{ at } 1 \text{ pence} \\ 379 \\ 189 \\ 63 \\ \hline 20) 379 \\ 3110 \text{ Ans} \end{array}$
$\begin{array}{r} 2798 \text{ at } 13 \\ 2798 \\ 13990 \\ \hline 20) 2798 \\ 191814 \text{ Ans} \end{array}$	$\begin{array}{r} 324 \text{ at } 2 \text{ pence} \\ 324 \\ 648 \\ 162 \\ \hline 20) 324 \\ 4010 \text{ Ans} \end{array}$
$\begin{array}{r} 3679 \text{ at } 17 \\ 3679 \\ 19998 \\ \hline 20) 3679 \\ 191814 \text{ Ans} \end{array}$	$\begin{array}{r} 126 \text{ at } 3 \text{ pence} \\ 126 \\ 378 \\ 42 \\ \hline 20) 126 \\ 210 \text{ Ans} \end{array}$
$\begin{array}{r} 473 \text{ at } 4\frac{1}{2} \\ 473 \\ 2365 \\ \hline 20) 473 \\ 31273 \text{ Ans} \end{array}$	$\begin{array}{r} 716 \text{ at } 6 \text{ pence} \\ 716 \\ 4296 \\ 348 \\ 1194 \\ \hline 20) 716 \\ 238104 \text{ Ans} \end{array}$
$\begin{array}{r} 946 \text{ at } 4\frac{1}{2} \\ 946 \\ 4730 \\ \hline 20) 946 \\ 19912 \text{ Ans} \end{array}$	

Continued

No 6 1/2 673 at 4.10 1/2
 3 1/2 3365
 1 1/2 3365
 1 1/2 1683
 2 8 0 1/2
 29 5 3 10 1/2
 197 13 10 1/2 ans

No 8 2 1/2 2547 at 7.5 1/2
 17629
 424 6
 212 3
 106 1 1/2
 201847 1 10 1/2
 929 11 10 1/2 ans

No 9 4 1/2 3716 at 4.4 1/2
 33435
 1238 4
 144 9 1/2
 20348 2 8 1/2
 1741 8 1 1/2 ans

No 10 6 1/2 2579 at 13.7 1/2
 7716
 2332
 33436
 1246
 214 4
 707 2
 2935043 6
 1742 3 6 ans

No 11 4 1/2 7251 at 14.8 1/2
 29004
 7251
 101414
 2417 4
 1812 3
 604 4
 147 1/4
 2010649 0 1/4
 4324 19 0 1/4

No 12 6 1/2 1924 at 19.2 1/2
 13246
 36446
 962
 20374 19
 1976 19 ans

No 13 2 1/2 2710 at 19.2 1/2
 2710
 2710
 61436
 44 1 1/8
 772 1/4
 2042064 7
 260274 7 1/2

Rule

47 at 6.54
 141
 7 16 1/2
 148 16 1/2 ans

17 at 2.6 8 pence
 34
 5 13 1/4
 39 13 1/4 ans

17 at 11.14 0 pence
 11
 187
 8 10
 3 8
 198 19 ans

20 at 4.13 1/2 pence
 90
 70
 3 6 1/2
 93 6 1/2 ans

77 at 6.13 1/4 pence
 426
 35 10
 11 16 1/2
 473 6 1/2 ans

148 at 3.8 1/2 pence
 468 4
 37 12
 7 19
 3 3 1/2
 1 8 1/2
 520 3 1/2 ans

447 at 14.17 1/2 pence
 1828
 457
 6398
 228 10
 114 6
 45 14
 11 8 1/2
 4 14 3
 0 19 0 1/2

6804 at 16.9 1/2 pence
 1828
 457
 6398
 228 10
 114 6
 45 14
 11 8 1/2
 4 14 3
 0 19 0 1/2

Rule December 28 1827

3 14 12
 44 9 0
 1 17 0
 9 3
 46 14 3 ans

2 2 6 at 17.5 1/2
 8 10 0
 34 0 6
 2 2 6
 7 1 3
 10 7 1/2
 6 0 3/4
 9 1/2
 4 1/2
 38 1 6 3/4

1 19 6 at 10 1/2
 19 14 0
 2 9 3/4
 1 4 3/4
 19 19 2 1/2 ans

4 10 4 at 2 1/2
 40 13 1/2
 2 4 2 1/2
 12 10 3/4
 6 5 1/4
 1 7 1/4
 43 19 6 1/2 ans

2 17 1/2 at 2 1/2
 2 17 1/2
 14 4 0
 14 3
 14 19 3 ans

3 16 9 at 7.5 1/2
 26 12 0
 10 10 1/2
 1 4 1/2
 8
 27 4 10 1/2 ans

1 4 at 1 1/2
 4 0
 4 0
 1 16 0
 4 1/2
 5 1/2
 1 at 7.1 1/2 ans

3 9 0
 26 9 0
 207
 483 3
 5 9
 2 10 1/2
 1 5 1/4
 20 5 07 0 3/4
 2 5 10 0 3/4

12 2 at 67 1/2
 12
 146
 67
 10 2 2
 87 2 2
 77 2 2
 7 3
 12 7 5 5
 20 8 2 1 3
 4 1 1 3 ans

8 1 at 6 1/2
 8
 97
 68
 770
 182
 6896
 2 4 1/2
 662 0 1/2
 4 1 1/2
 27 11 8 1/4 ans

12 6
 130
 419
 1350
 150
 600
 6284 0
 7 1/2
 3 7 1/2
 12 6296 2 1/2
 20 4246 1/2
 262 6 10 1/2

3 7 12
 20
 67
 81 3
 476
 489 0
 570 1/2
 526
 5879 4 0
 407 5
 203 3/4
 10 1 1/2
 40 1/2

2 1/2 3 7 12
 1 1/2 81 3
 20 1/2 489 0
 8 1/2 5879 4 0
 407 5
 203 3/4
 10 1 1/2
 40 1/2
 5879 4 0
 407 5
 203 3/4
 10 1 1/2
 40 1/2
 5879 4 0
 407 5
 203 3/4
 10 1 1/2
 40 1/2

Continued January 4th 1828

No 8 If 1 gallon of wine sell for 11 shilling of 11.44.3
Wheat will 4.40 gallons bring

11.44.3
4.40
11.44.3
4.40
298.13

No 9 How much will 900 bushels of
Wheat amount to at 16 shilling
and 6 per bushel

16.00
900
14400
540
14940
533.6.8

No 10 How much will 47 toner of hay amount to
to at 6 L 6 shilling per ton

6.6.8.47
126
126
940
1066
235
1301
47
1348

No 11 If 1 yard of cloth cost 1 L 17 s 4 pence
how much will 1677 yds come to

1.17.4
1677
1700
29283
277.13.4

No 12 How much 390 lbs of sugar at 12 cents per
pound what is the amount

12
390
468
11733
6708
18441
6496
3299

No 13 Bought 324 yds of calico at 12
cents what is the amount

12
324
3888
4982.5.11

No 14 What will 16 cwt 2 qrs 17 lb of sugar
amount to at 4 L 11 s 10 d per cwt

4.11.10
16
66
28
1342

No 15 How much 40 yds 2 qrs of superfine cloth at
\$10.50 cents per yd how much does it
amount to

10.50
40
420
9352
334
1024
1344
1924
22800
22346

No 16 If 1 lb of sugar cost 11.44.3
how much will 4.40 lbs come to

11.44.3
4.40
11.44.3
4.40
298.13

Tare and Tret of January 4th 1828

No 3 The gross weight of a certain hoghead
of sugar is 8 cwt 3 qrs 17 lb; the tare is
3 quarters 16 lb what is the neat weight

8 cwt
3 qrs
17 lb
3 qrs
16 lb
3 qrs 0 lb 1 cwt

No 4 What is the neat weight of 4 cwt
1 qr 19 lb of tobacco. tare in the whole
15 cwt 2 qrs 13 lb

4 cwt
1 qr
19 lb
446
14
2
13
440
3
6 cwt

No 5 What is the neat weight of 4 casks of
indigo the gross weight of each cask being
4 cwt 2 qrs 14 lb the tare in the whole
0 quarter 26 lb

4 cwt
2 qrs
14 lb
4
14
2
26
17
1
2 cwt

No 6 What is the neat weight of 5 casks of
sugar the gross weight and tare as follows

4 cwt 2 qrs 14 lb
5 cwt 0 qrs 17 lb
6 cwt 3 qrs 10 lb
7 cwt 1 qrs 16 lb
8 cwt 2 qrs 19 lb
2 cwt 0 qrs 19 lb
21 cwt 2 qrs 0 lb

Case 2 January

No 7 What is the neat weight of 4 hogheads
of tobacco each weighing 10³ 10 gross
tare 10³ 10

10 ³ 10
4
40
3
2
10
3
2
10
20
1
29

No 8 What is the neat weight of 6 Casks of
raisins each weighing 5² 10 gross
tare 20 pound per cask

5 ² 10
6
30
2
10
32
180
117
63

No 9 What is the neat weight of 35 Bales of
silks each weighing 315 gross tare 10 pound
bale

315
35
12125
350
11775

16

Case 3: January the 7 1828

What is the neat Weight of thirty hogsheads of sugar each weighing 10 cwt 19 lb 20 gross tare 27 lb 20 gross tare per cwt 14 lb

What is the neat weight of 6 hogsheads of sugar each weighing 5 cwt 14 lb gross tare 16 per cwt

What is the neat weight of 9 hogsheads of tobacco each weighing 6 cwt 12 lb gross tare 17 per cwt

Case 4: January the 7 1828

What is the neat weight of 11 chests of sugar weighing 120 cwt 2 qrs gross tare 176 lb tret 4 lb per 104 lb

What is the neat weight of 5 hogsheads of sugar each weighing 10 cwt 19 lb 20 gross tare 27 lb 20 gross tare per cwt 14 lb tret 4 lb per 104 lb

Application January 7 1827

There are 24 bags hogsheads of tobacco each hogshead weighing 2 cwt 2 qrs 17 lb gross tare in all 17 cwt 3 qrs 27 lb how much will the tobacco amount to at 12 100-60 per cwt

Bought 5 bags of coffee each of which weighed 95 lb gross tare in the whole 10 lb how much did it amount to at 25 cents per lb

What is the amount of 30 Casks of Raisins each cask weighing 25 lb gross tare 21 lb per cask price 87.15 per cwt

What is the value of 10 Casks of alum the whole weighing 2 cwt 2 lb 15 gross tare 15 lb per cask price 25 and 4 per cwt

Sold 12 butts of currants each butt weighed 7 cwt 1 quarter 10 pounds gross tare 16 pounds per cwt What was the amount at 9.20 per cwt

HENR

Continued January 1928

808

What is the value of 8 hogsheads of sugar each weighing 8 cwt 7 lb tare 12 lb per cwt price 72 shillings and 6 pence cwt

8	hogsheads	8	cwt	7	lb
Tare 12 lb per cwt					
Price 72 shillings and 6 pence cwt					
8	hogsheads	8	cwt	7	lb
Tare 12 lb per cwt					
Price 72 shillings and 6 pence cwt					

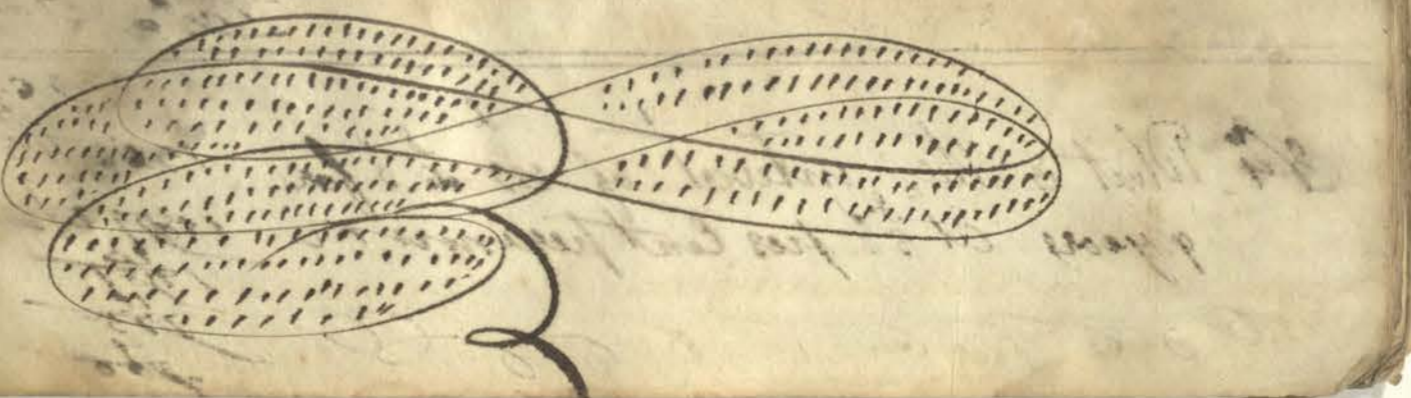
228.5.7 1/2

Simple Interest January

- 81 What is the interest of 500 £ for one year at 6 £ per cent per annum 30.00
- 82 What is the interest of 1000 £ for one year at 7 £ per cent 70.00
- 83 What is the interest of 250.17.8 for one year at 6 £ per cent 15.00
- 84 What is the interest of 220 £ for one year at 4 £ per cent per annum 8.80
- 85 What is the interest of 70 for one year at 5 £ per cent per annum 3.50
- 86 What is the interest of 200 £ 10.6 for one year at 5 £ per cent per annum 10.00
- 87 What is the interest of 100 for one year at 6 dollars per cent 6.00

Continued January 1928

- 810 What is the interest of 100 for one year at 11 dollars per cent 11.00
- 811 What is the interest of 600 for one year at five dollars per cent per annum 30.00
- 812 What is the interest of 400 for one year at 6 per cent per annum 24.00
- 813 What is the interest of 322.11 for one year at five dollars per cent per annum 16.10
- 814 What is the interest of 75.95 for one year at 4 per cent per annum 3.04
- 815 What is the amount of 100 for one year at 5 per cent per annum 105.00
- 816 What is the amount of a bond for 100 for one year at 6 per cent per annum 106.00



Case 2: January 14th 1825

No 3 What is the interest of 216 L & Shilling for one year at 5% per Cent per annum Answer 11 L 17 S 10 D

No 4 What is the interest of 500 L for one year at 6% per Cent per annum Answer 31.25

No 5 What is the interest of 855 L 17 S for one year at 5% per Cent per annum Answer 42.79 7.6

No 6 What is the interest of 1500 for one year at 6% dollars per Cent per annum Answer 90

Case 3: January 14th 1825

No 7 What is the interest of 150 L for 3 years at 6% per Cent per annum Answer 22.50

No 8 What is the interest of 375 L 10 S 6 for 4 years at 4% per Cent per annum Answer 60.75

No 9 What is the interest of 555 L 11 S for 9 years at 5% per Cent per annum Answer 45.90

Answers to Case 2: 11 L 17 S 10 D, 31.25, 42.79 7.6, 90, 22.50, 60.75, 45.90

Continued January 14th 1825

No 10 What is the interest of 1000 for 5 years at 6% dollars per Cent per annum Answer 300

No 11 What is the interest of 1000 for 4 years at 6% per Cent per annum Answer 240

No 12 What is the interest of 124.15 for 2 years at 5% per Cent per annum Answer 12.415

No 13 What is the interest of 120 dollars for 6 years at 5% dollars per Cent per annum Answer 36

No 14 On a mortgage for 1256 dollars, there is 4 years interest due at 6% dollars per Cent per annum which is to be paid with the Principal. What sum will discharge the debt Answer 1356.44

Case 4: January 15th 1825

No 15 What is the interest of 150 L 19 S for three years and 4 months at 6% per Cent per annum Answer 27.90

Answers to Case 3: 300, 240, 12.415, 36, 1356.44, 27.90

Henry Ferguson

22 Continued January the 14

83 What is the interest of 57.12 for 2 months at 6 per cent

57.12
 6
 342.60
 342
 12
 28.55
 174.45

84 What is the interest of 4500 for 4 months at 7 dollars per cent

4500
 7
 31500
 12
 11750

85 What is the interest of 400 for one week at 52 per cent per annum

400
 52
 20800
 52
 400
 12
 336

86 What is the interest of 126 12 for 16 week at 46 per cents per annum

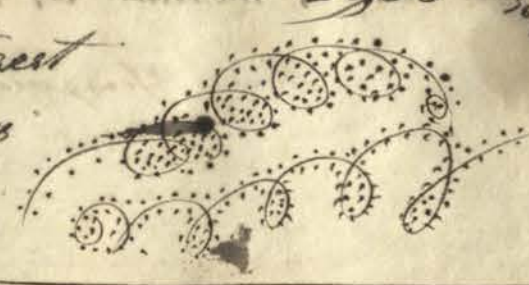
126
 46
 5808
 12
 484
 12
 4032

87 What is the interest of 250 for 73 days at 11 per cent per annum

250
 11
 2750
 12
 229.16

88 What is the interest of 500 for 140 days at 6 per cent per annum

500
 6
 3000
 12
 1250



Continued January the 16 1828

89 What is the interest of 71 3-112 for one year five months and 25 days at 6 per cent per annum

71
 6
 426
 12
 35.5

90 What is the amount of a bond for 967 for 2 years and 4 months at 6 dollars per cent

967
 6
 5802
 12
 967
 1102.78

Examples 4
 Rules January 16 1828

91 What is the interest of 900 for 8 months at 6 per cents per annum

900
 6
 5400
 12
 36.00

92 What is the interest of 450 for 4 months at 7 per cents per annum

450
 7
 3150
 12
 10.10

93 What is the interest of 148 for 11 months at 6 per cent per annum

148
 6
 888
 12
 7.07

94 What is the interest of 1260 for 4 months at 6 Dollars per cent per annum

1260
 6
 7560
 12
 315

95 What is the interest of 530 Dollars for 8 months at 6 per cents per annum

530
 6
 3180
 12
 242.00

96 What is the interest of 7342 Dollars for 10 months at 6 Dollars per Cent per annum

7342
 6
 44052
 12
 3670.16

97 What is the interest of 760 for 9 months at 7 Dollars per Cent per annum

760
 7
 5320
 12
 674.00

24 Continued January 16 1828

87 What is the interest of 275 for 52 months
at 6 dollars per cent per annum

88 What is the interest of 460.50 for 4 months
at 6 dollars per cent per annum

89 What is the interest of 230.25 for 8 months
at 4 Dollars per cent per annum

90 What is the interest of 764.50 for 3 years
and 10 months at 6 Dollars per cent per annum

Examples
91 What is the interest of 171 Dollars for 90 days
at 6 dollars per cent per annum

92 What is the interest 5084 dollars for
30 days at 6 per cent per annum

93 What is the interest of 2324 dollars for
54 days at 6 per cent per annum

94 What is the interest of 5942 dollars
for 50 days at 6 per cent per annum

95 What principal at interest for 10 years
at 6 per cent per annum will amount
to 1000 £

What principal at interest
for 4 years at 5 per cent
will amount to 571.20

Case 6th January 17 1828

96 At what rate per cent per annum will
500 £ amount to 725 in 9 years

97 At what rate per cent per annum
will 600 £ amount to 856.50 in 9 years
and 6 months

Case 7th January 17 1828

98 In what time will 540 amount to
754.8 at 4 per cent per annum

In what time will 600 £ amount
to 798 dollars at 6 per cent per annum

Insurance Commission
And Brokage January 16

99 What is the commission on 1372.95
at 5 per cent

100 What is the commission on 526.115 at 2
per cent

101 What is the commission on 1974 dollars at
5 dollars per cent

102 A factor has sold goods for a merchant to the amount
of 950.10 and is to receive 3/4 Pounds per cent
commission What sum is due to him

26 Continued January the 17th 1825

No 6 What is the insurance of 900 at 7 percent

900
63.00
963.00

No 7 What is the insurance of 1250 dollars at 7 Dollars per cent

1250
87.50
1337.50

No 8 What is the insurance of one East India Ship and Cargo valued at 14812.15 at 15 3/4 percent

14812.15
2322.06.5
17134.21.5

No 9 What is the brokerage on 1521.11.4 at 1 1/2 percent

1521.11.4
22.81.7
1543.93.1

No 10 What is the brokerage on 874 15 5 at five shillings or 1/4 of a pound

874 15 5
218 12 9 3/4
1092 28 2 3/4

If a broker buy goods for me to the amount of 1853 and I allow him 3/4 dollar per cent for his service what sum must I pay him

1853
138.975
1991.975

Compound Interest

No 1 What is the compound interest of 450 for 3 years at 5 per cent per annum

450
22.50
472.50
12.50
485.00
12.625
507.625

No 3 What is the Compound Interest of 760.10.0 for 4 years at 6 per cent per annum

760.10.0
45.60.0
805.70.0
48.342.0
854.042.0
51.242.52
905.284.52
54.317.071.2
959.601.591.2

No 4 What is the Compound Interest of 400 Dollars for 4 years at 6 per cent per annum

400
24.00
424.00
25.44
449.44
27.48
476.92
29.63
506.55

No 5 How much will 400 amount to in 4 years at 6 per cent

400
24.00
424.00
25.44
449.44
27.48
476.92
29.63
506.55

Discount January 1825

No 3 What is the present worth of 672 dollars due in 2 years Discount at 6 per cent per annum

672
25.20
646.80
12.282
634.518

No 4 What is the present worth of 308 15 due in 18 months Discount at 8 per cent per annum

308 15
12.324
295.826



28. Discount January Jan 19 1828

8. What is the present worth of 430.67 due in 19 months discount at 5 per cent per annum

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Continued January 1825

5 If I buy 700 of baize at 3 Shillings and 4 pence half penny per yard and sell it at 3 Shillings and 9 pence per yard how much doe I gain

Handwritten calculations for problem 5, showing multiplication and subtraction to find a gain of 146.10 1/2.

6 Bought 2016 pounds of rice at 5 per pound and sold it at 5 1/2 per pound how much was gained by the transaction

Handwritten calculations for problem 6, showing a gain of 1008.

7 If I lay out 1000 in hats at 4 each and sell them afterwards at 4 50 each how much will I gain

Handwritten calculations for problem 7, showing a gain of 125 1/2.

8 A merchant bought 1300 pounds of coffee at 22 cents per pound and was afterwards obliged to sell it at 20 cents per lb how much did he lose

Handwritten calculations for problem 8, showing a loss of 2600.

9 B laid out 250 in cloth at 50 per yard and afterwards finding it was damaged sold it at 26 1/2 per yard how much did he lose

Handwritten calculations for problem 9, showing a loss of 109 1/2.



Continued January the 27 1825

10 A Shopkeeper bought 42 yards of muslin for 4 14 8 and sold it at 2 6 per yard whether did he lose or gain and how much

Handwritten calculations for problem 10, showing a loss of 10.4.

11 A Draper bought 100 yards of cloth for 56 how must he sell it per yard to gain 19 in the whole

Handwritten calculations for problem 11, showing a selling price of 70.

12 If a grocer buy a quantity of tea for 125 and sell it again for 150 how much will he gain per cent

Handwritten calculations for problem 12, showing a gain of 20%.

13 If a yard of mantua be purchased for 1 20 and sold again for 1 50 what is the gain per cent

Handwritten calculations for problem 13, showing a gain of 150%.

14 If a yard of Velvet be bought for 10 and sold again for 12 what is the loss per cent

Handwritten calculations for problem 14, showing a loss of 20%.

15 Bought a chest of tea weighing 490 for 200 and sold it for 370.10 what is the profit on each pound

Handwritten calculations for problem 15, showing a profit of 370.10.

16 If I buy 100 yards of cambric for 50 at how much must I sell it per yard to gain 15 per cent

Handwritten calculations for problem 16, showing a selling price of 57.5.

Handwritten calculations for problem 16, showing a selling price of 57.5.

B6 Continued

$$\begin{array}{r} 2.10 \\ 6.10 \\ \hline 18.00 \\ 2.10 \\ \hline 20.10 \\ 12.10 \\ \hline 32.20 \\ 7.10 \\ \hline 39.30 \end{array}$$

(17) Bought 12 pieces of white cloth for £ 10 10s 11d per piece and paid 20 10 per piece for dyeing it how much must each piece be sold for to gain 20 percent

(18) If a trader gain 12 per shilling on his goods how much does he gain percent

(19) If I buy 20 pieces of stuff at 4 per piece and sell 10 of the pieces at 6 per piece and 10 at 5 per piece at what rate per piece must I sell the rest to gain 20 percent by the whole

(20) Having bought a parcel of goods for £ 18 10s and sold them immediately for £ 25 with 11 months credit what is gained percent

Fellowship January the 27 1828

(1) D E and F trading together gained 120 £. Stock was 140 £ was 300 and F was 160 what was each mans share of the gain

(2) Three merchants trading together lost goods to the value of 1920 now suppose the stock was 2550 B was 1520 and C was 4800 what share of the loss must each man sustain

(3) A B and C freighted a ship with 108 of wine of which A had 48 48 tuns B 36 and C 24 but by reason of stormy weather were obliged to cast 48 tuns overboard how much must each man sustain of the loss

(4) If the money and effects of a bankrupt amount to 1400.14.6 and he is indebted to A 792.12 to B 641.19.9 and to C 987.17.9 how must the property be divided amongst them

$$\begin{array}{r} 1400.14.6 \\ 792.12.0 \\ 641.19.9 \\ 987.17.9 \\ \hline 2821.64.4 \end{array}$$

$$\begin{array}{r} 1920 \\ 2550 \\ 4800 \\ \hline 8270 \end{array}$$

$$\begin{array}{r} 48 \\ 36 \\ 24 \\ \hline 108 \\ 48 \\ 36 \\ 24 \\ \hline 108 \end{array}$$

$$\begin{array}{r} 1400.14.6 \\ 792.12.0 \\ 641.19.9 \\ 987.17.9 \\ \hline 2821.64.4 \end{array}$$

$$\begin{array}{r} 1400.14.6 \\ 792.12.0 \\ 641.19.9 \\ 987.17.9 \\ \hline 2821.64.4 \end{array}$$

Continued B share

As share

236174
 154076
 128539
 154076
 134467
 168087
 567417
 512475
 548815
 341650
 170829
 46665
 186662
 170829
 152861
 569417
 197125
 567417
 227708
 170829
 568856
 512475
 567607
 512475
 511320
 455336
 557869
 512475
 453745
 569417
 101578
 70829
 107527

C Suppose a person is indebted to B 400 to D 400 and to A 1400.00 but upon his decease his property was to be worth only 409.14 how must it be divided to be

Among his creditors
 B share 8000
 D share 8000
 A share 14000
 146550
 13765920
 131875
 57642
 43765
 736770
 131875
 4575
 146550
 43765
 19393
 158140
 4296
 14175

Continued B share

140 126
 20
 2612
 33750
 8174
 135000
 30750
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 146550 270000
 176547
 146550
 129997
 117240
 127575
 117240
 103350
 102585
 765
 146550 718000
 56780
 27310
 7410

1 Three graziers pay among them 100 for a grass inclosure to which they put 300
 A had 80 B 100 and C 100 how much should each person pay share
 B share 80
 C share 100
 100
 100
 100
 300 1000 4000
 32 1000 4000

2 B & D traded together B put in 50 for 4 months C put in 100 for 6 months and D 150 dollars for 8 months they gained 126.80 what is each man's share of the gain
 B share 8
 C share 126.80
 D share 126.80
 200 53600
 12.65

Exchange January 1828

② What is the Value of 1500 Massachusetts currency in New York.

as 6-15-00

$$\begin{array}{r} 2000 \\ 20000 \\ \hline \end{array}$$

③ What is the Value of 240 Pennsylvania currency in New York.

add 1/2

$$\begin{array}{r} 240 \\ 16 \\ \hline 256 \text{ Answer} \\ 753.68 \\ 466.24 \\ \hline 1219.92 \\ 150000 \end{array}$$

④ What is the Value of 755.6.8 South Carolina currency in Pennsylvania.

⑤ What Sum in Pennsylvania currency is equal to 120.10 in New York.

$$\begin{array}{r} 120.10 \\ 7.10 \\ \hline 272.19.42 \end{array}$$

⑥ What Sum in Pennsylvania currency is equal to 234.4 in New England or Virginia.

$$\begin{array}{r} 234.4 \\ 5.81 \\ \hline 272.15.4 \end{array}$$

⑦ What is the Value of 175.16 New Jersey currency in New York.

$$\begin{array}{r} 175.16 \\ 185.7 \end{array}$$

⑧ What is the Value of 900 New England or Virginia currency in South Carolina.

$$\begin{array}{r} 900 \\ 100 \\ 100 \\ \hline 1100 \text{ Answer} \\ 792.77 \\ 491.24 \\ \hline 1284.01 \end{array}$$

⑨ change 792.19.7 of North Carolina into Pennsylvania currency.

$$\begin{array}{r} 792.19.7 \\ 491.24 \\ \hline 1283.43.7 \end{array}$$

⑩ What Sum of Maryland currency is equal to 6507.13.5 of New York.

$$\begin{array}{r} 6507.13.5 \\ 374.42.74 \\ \hline 9281.56.24 \end{array}$$

⑪ What is the Value of a bill of 750 Pennsylvania currency in New York or North Carolina.

$$\begin{array}{r} 750 \\ 1911.50 \\ \hline 800 \text{ Answer} \end{array}$$

Continued February

⑫ A merchant in Virginia consigns to his agent in New York a quantity of Tobacco which when sold and the charges deducted amounts to £2000. What is the Value thereof in Virginia currency Above in federal money.

$$\begin{array}{r} 2000 \\ 465.11.6 \\ 20 \\ \hline 1534.88.4 \\ 400 \text{ federal} \\ \hline 1134.88.4 \end{array}$$

Foreign Exchange

⑬ C of Philadelphia is indebted to D of London 150. Sterling how much Pennsylvania currency will discharge the debt exchange being at 78 per cent.

$$\begin{array}{r} 150 \\ 78 \\ \hline 119.25 \end{array}$$

⑭ How much Sterling is equal to 1841. Pennsylvania currency being at 67 per cent.

$$\begin{array}{r} 1841 \\ 67 \\ \hline 2747.76 \end{array}$$

⑮ A bill of exchange on London for 1000 Sterling is drawn at 100 days. The exchange is 100. The bill is payable 100 days hence. What is the Value of the bill in Pennsylvania currency.

$$\begin{array}{r} 1000 \\ 100 \\ \hline 1000 \end{array}$$

⑯ Thirty days after sight of this my first of exchange Second and third of like tenor and date not paid.

$$\begin{array}{r} 1000 \\ 28 \\ 24 \\ 17 \\ \hline 803.4.76 \end{array}$$

or order four hundred and fifty two pounds ten shillings and sixpence sterling Value. Peter Simpson To Samuel merchant. What is the Value of a bill in Pennsylvania currency Exchange at 77 1/2 percent.

Vulgar Fractions Case 3rd February

N^o 2 Reduce $17\frac{1}{2}$ to an improper fraction $\frac{35}{2}$

N^o 3 Reduce $12\frac{3}{4}$ to an improper fraction $\frac{51}{4}$ Answer

N^o 4 Reduce $100\frac{3}{4}$ to an improper fraction $\frac{403}{4}$ Answer

N^o 5 Reduce $514\frac{1}{2}$ to an improper fraction $\frac{1029}{2}$ Answer

N^o 6 Reduce $47\frac{141}{100}$ to an improper fraction $\frac{47141}{100}$ Answer

Case 4 February 3rd 1828

N^o 2 Reduce $17\frac{1}{2}$ to its proper term $\frac{35}{2}$

N^o 3 Reduce $17\frac{1}{2}$ to its proper terms $\frac{35}{2}$

N^o 4 Reduce $17\frac{1}{2}$ to its proper terms $\frac{35}{2}$

N^o 5 Reduce $384\frac{1}{2}$ to its proper terms $\frac{769}{2}$

N^o 6 Reduce $17\frac{1}{2}$ to its proper terms $\frac{35}{2}$



Henry Vergutson 1828

Case 3rd February

N^o 2 Reduce $\frac{1}{2}$ of $\frac{2}{3}$ of $\frac{3}{4}$ to a single fraction $\frac{1}{4}$

N^o 3 Reduce $\frac{1}{2}$ of $\frac{2}{3}$ of $\frac{3}{4}$ to a single fraction $\frac{1}{4}$

N^o 4 Reduce $\frac{1}{2}$ of $\frac{2}{3}$ of $\frac{3}{4}$ to a single fraction $\frac{1}{4}$

N^o 5 Reduce $\frac{1}{2}$ of $\frac{2}{3}$ of $\frac{3}{4}$ to a single fraction $\frac{1}{4}$

N^o 6 Reduce $\frac{1}{2}$ of $\frac{2}{3}$ of $\frac{3}{4}$ to a single fraction $\frac{1}{4}$

Case 6 February the 19th 1828

N^o 2 Reduce $\frac{1}{2}$ of a penny to the fraction of a pound $\frac{1}{240}$

N^o 3 Reduce $\frac{1}{2}$ of a farthing to the fraction of a shilling $\frac{1}{48}$

N^o 4 Reduce $\frac{1}{2}$ of a cent to the fraction of a dollar $\frac{1}{200}$

N^o 5 Reduce $\frac{1}{2}$ of an oz troy to the fraction of a pound $\frac{1}{16}$

N^o 6 Reduce $\frac{1}{2}$ of a pound avoirdupois to the fraction of a cent $\frac{1}{160}$

N^o 7 Reduce $\frac{1}{2}$ of a pint of wine to the fraction of a bushel of boys heads $\frac{1}{16}$

Case 6 continued February

82^o Reduce $\frac{1}{4}$ of a minute to the fraction of a day

Case 7 Vulgar Fraction

82^o Reduce $\frac{1}{100}$ of a pound to the fraction of a penny

83^o Reduce $\frac{1}{2}$ of a Shilling to the fraction of a farthing

84^o Reduce $\frac{1}{100}$ of a dollar to the fraction of a cent

85^o Reduce $\frac{1}{27}$ of a lb Troy to the fraction of an oz

86^o Reduce $\frac{1}{32}$ of a cent to the fraction of a pound avoirdupois

87^o Reduce $\frac{1}{16}$ of a hoghead to the fraction of a pint

88^o Reduce $\frac{1}{24}$ of a day to the fraction of a minute

Henry Ferguson

Case 8th February

82^o Reduce $\frac{1}{2}$ of a pound to its proper Value

83^o Reduce $\frac{1}{45}$ of a Shilling to its proper Value

84^o Reduce $\frac{1}{4}$ of 5:9 to its proper Value

85^o Reduce $\frac{1}{5}$ of a dollar to its proper Value

86^o Reduce $\frac{1}{4}$ of a pound troy to its proper quantity

87^o Reduce $\frac{1}{7}$ of a pound avoirdupois to its proper quantity

88^o Reduce $\frac{1}{4}$ of a ton to its proper quantity

89^o Reduce $\frac{1}{4}$ of a mile to its proper quantity

90^o Reduce $\frac{1}{10}$ of a year to its proper quantity

91^o Reduce $\frac{1}{70}$ of an acre to its proper quantity

Case 8 Continued

8¹² Reduce $\frac{4}{7}$ of a tun of wine to its proper quantity

$$\frac{4}{7} \times \frac{24}{24} = \frac{96}{168}$$

8¹³ Reduce $\frac{7}{8}$ of a yard of cloth to its proper quantity

$$\frac{7}{8} \times \frac{36}{36} = \frac{252}{320}$$

8¹⁴ Reduce $\frac{7}{10}$ of a year to its proper quantity

$$\frac{7}{10} \times \frac{365}{365} = \frac{2555}{520}$$

Case 9 February

8²² Reduce 10.6 to the fraction of a pound

$$10 \frac{6}{10} = \frac{106}{10} = \frac{53}{5}$$

8²³ Reduce 48 to the fraction of a shilling

$$48 \times \frac{1}{20} = \frac{48}{20} = \frac{12}{5}$$

8²⁴ Reduce $5\frac{1}{2}$ to the fraction of a shilling

$$5\frac{1}{2} \times \frac{1}{20} = \frac{11}{40}$$

8²⁵ Reduce 9 oz Troy to the fraction of a lb

$$9 \times \frac{1}{16} = \frac{9}{16}$$

8²⁶ Reduce 7.25 to the fraction of a lb avoirdupois

$$7\frac{1}{4} \times \frac{16}{16} = \frac{116}{16} = \frac{29}{4}$$

8²⁷ Reduce 3 out 8 lb 7 oz 13 dr to the fraction of a ton

$$3 \text{ lb } 7 \text{ oz } 13 \text{ dr} = 3 \times 16 + 7 \times 8 + 13 = 105 \text{ dr}$$

$$105 \times \frac{1}{25600} = \frac{105}{25600}$$

Case 9 Continued

8²⁸ Reduce 3 qrs 2 nails to the fraction of a yard

$$3 \frac{2}{4} \times \frac{16}{16} = \frac{50}{16} = \frac{25}{8}$$

8²⁹ Reduce 6 furlongs 16 poles to the fraction of a mile

$$6 \frac{16}{40} \times \frac{1}{1} = \frac{256}{100} = \frac{64}{25}$$

8³⁰ Reduce 2 Roods 20 perches to the fraction of an acre

$$2 \frac{20}{40} \times \frac{1}{4} = \frac{10}{160} = \frac{1}{16}$$

Addition of Vulgar Fractions

8³¹ Add $\frac{1}{2}$ and $\frac{1}{3}$ together

$$\frac{1}{2} + \frac{1}{3} = \frac{3}{6} + \frac{2}{6} = \frac{5}{6}$$

8³² Add $\frac{1}{4}$, $\frac{1}{6}$ and $\frac{1}{12}$ together

$$\frac{1}{4} + \frac{1}{6} + \frac{1}{12} = \frac{3}{12} + \frac{2}{12} + \frac{1}{12} = \frac{6}{12} = \frac{1}{2}$$

8³³ Add $7\frac{1}{2}$ and $\frac{5}{8}$

$$7\frac{1}{2} + \frac{5}{8} = 7\frac{4}{8} + \frac{5}{8} = 7\frac{9}{8} = 8\frac{1}{8}$$

8³⁴ Add $\frac{1}{2}$, $\frac{1}{3}$, $\frac{1}{4}$ and $\frac{1}{6}$ together

$$\frac{1}{2} + \frac{1}{3} + \frac{1}{4} + \frac{1}{6} = \frac{6}{12} + \frac{4}{12} + \frac{3}{12} + \frac{2}{12} = \frac{15}{12} = 1\frac{1}{4}$$

8³⁵ Add $\frac{1}{2}$ together

$$\frac{1}{2} + \frac{1}{2} = 1$$

8³⁶ Add $\frac{1}{2}$ to $\frac{1}{2}$ together

$$\frac{1}{2} + \frac{1}{2} = 1$$

8³⁷ Add $\frac{1}{2}$ and $\frac{1}{3}$ together

$$\frac{1}{2} + \frac{1}{3} = \frac{5}{6}$$

8³⁸ Add $7\frac{1}{2}$ and $\frac{5}{8}$ together

$$7\frac{1}{2} + \frac{5}{8} = 8\frac{1}{8}$$

Addition Continued

February 14

N^o 1 Add $5\frac{1}{2}$ $6\frac{3}{4}$ and $4\frac{1}{2}$ together

$$\begin{array}{r} 5\frac{1}{2} \\ 6\frac{3}{4} \\ 4\frac{1}{2} \\ \hline 16\frac{3}{4} \end{array}$$

N^o 2 Add $2\frac{1}{2}$ and $3\frac{3}{4}$ together

$$\begin{array}{r} 2\frac{1}{2} \\ 3\frac{3}{4} \\ \hline 6\frac{1}{4} \end{array}$$

N^o 3 Add $1\frac{1}{4}$ and $2\frac{3}{4}$ together

$$\begin{array}{r} 1\frac{1}{4} \\ 2\frac{3}{4} \\ \hline 4 \end{array}$$

N^o 4 Add $1\frac{1}{2}$ and $2\frac{1}{2}$ together

$$\begin{array}{r} 1\frac{1}{2} \\ 2\frac{1}{2} \\ \hline 4 \end{array}$$

N^o 5 Add $4\frac{1}{2}$ $9\frac{3}{4}$ and $2\frac{1}{2}$ together

$$\begin{array}{r} 4\frac{1}{2} \\ 9\frac{3}{4} \\ 2\frac{1}{2} \\ \hline 16\frac{3}{4} \end{array}$$

N^o 6 Add $5\frac{1}{4}$ and $7\frac{1}{2}$

$$\begin{array}{r} 5\frac{1}{4} \\ 7\frac{1}{2} \\ \hline 12\frac{3}{4} \end{array}$$

N^o 7 Add $\frac{2}{3}$ of $\frac{7}{10}$ and $\frac{7}{12}$ of $\frac{4}{5}$ together

$$\begin{array}{r} \frac{2}{3} \text{ of } \frac{7}{10} = \frac{14}{15} \\ \frac{7}{12} \text{ of } \frac{4}{5} = \frac{7}{15} \\ \hline \frac{21}{15} = \frac{7}{5} \end{array}$$

N^o 8 Add $\frac{2}{3}$ of $\frac{7}{10}$ and $\frac{2}{3}$ of $\frac{10}{12}$ together

$$\begin{array}{r} \frac{2}{3} \text{ of } \frac{7}{10} = \frac{14}{15} \\ \frac{2}{3} \text{ of } \frac{10}{12} = \frac{10}{9} \\ \hline \frac{14}{15} + \frac{10}{9} = \frac{42}{45} + \frac{50}{45} = \frac{92}{45} \end{array}$$

N^o 9 Add $1\frac{1}{2}$ $\frac{2}{3}$ of 5 and $7\frac{1}{2}$

$$\begin{array}{r} 1\frac{1}{2} \\ \frac{2}{3} \text{ of } 5 = 3\frac{1}{3} \\ 7\frac{1}{2} \\ \hline 11\frac{1}{6} \end{array}$$

N^o 10 $1\frac{1}{2}$ $6\frac{3}{8}$ $\frac{2}{3}$ of $\frac{1}{2}$ and $\frac{1}{4}$ together

$$\begin{array}{r} 1\frac{1}{2} \\ 6\frac{3}{8} \\ \frac{2}{3} \text{ of } \frac{1}{2} = \frac{1}{3} \\ \frac{1}{4} \\ \hline 8\frac{1}{8} \end{array}$$

Rule September

N^o 1 Reduce $17\frac{1}{2}$ to the decimal of a pound

$$\begin{array}{r} 17\frac{1}{2} \\ \frac{1}{2} \\ \hline 35 \\ \hline 90 \\ \hline 15750 \end{array}$$

N^o 2 Reduce 9 pence to the decimal of a pound

$$\begin{array}{r} 9 \\ \hline 120 \\ \hline 1080 \end{array}$$

N^o 3 Reduce $10\frac{3}{4}$ to the decimal of a pound

$$\begin{array}{r} 10\frac{3}{4} \\ \frac{3}{4} \\ \hline 21 \\ \hline 960 \\ \hline 20160 \end{array}$$

N^o 4 Reduce 12 grains to the decimal of a pound

$$\begin{array}{r} 12 \\ \hline 7200 \\ \hline 14400 \end{array}$$

N^o 5 Reduce 12 drams to the decimal of a pound avoirdupois

$$\begin{array}{r} 12 \\ \hline 300 \\ \hline 3600 \end{array}$$

N^o 6 Reduce $2\frac{1}{4}$ to the decimal of a Cist

$$\begin{array}{r} 2\frac{1}{4} \\ \frac{1}{4} \\ \hline 5 \\ \hline 2500 \end{array}$$

N^o 7 Reduce 2 purlongs to the decimal of a league

$$\begin{array}{r} 2 \\ \hline 2500 \\ \hline 5000 \end{array}$$

N^o 8 Reduce $3\frac{1}{2}$ to the decimal of a yard

$$\begin{array}{r} 3\frac{1}{2} \\ \frac{1}{2} \\ \hline 7 \\ \hline 3500 \end{array}$$

N^o 9 Reduce 4 perches to the decimal of an acre

$$\begin{array}{r} 4 \\ \hline 40 \\ \hline 160 \end{array}$$

Case 2 Continued

Sept 30 1822

N^o 11 Reduce 1 pint to the decimal of a gallon
$$\frac{74000}{128} \text{ result}$$

N^o 12 Reduce 7 minutes to the decimal of a day
$$\frac{10}{60} \times \frac{7}{24} = \frac{70}{1440} = \frac{7}{144} \text{ Result}$$

N^o 13 Reduce 72 days to the decimal of a year computing the year at 365 days
$$\frac{72}{365} = \frac{7200}{36500} = \frac{144}{7300} \text{ Result}$$

N^o 14 Reduce 5 1/2 days to the decimal of a year computing the year at 365 1/2 days
$$\frac{5.5}{365.5} = \frac{11}{731} \text{ Result}$$

N^o 15 Reduce 30 to the decimal of a shilling
$$\frac{4300}{12 \times 20} = \frac{4300}{240} = \frac{1075}{60} \text{ Result}$$

Case 3 Decimals

Sept

N^o 2 What is the Value of 7854166 of a L
by inspection $\frac{7854166}{15 \times 8} = 65451 \frac{1}{3}$

N^o 3 What is the Value of 76 of a L
$$\frac{76}{15 \times 20} = \frac{76}{300} = \frac{19}{75} \text{ Result}$$

N^o 4 What is the Value of 625 of a Shilling
$$\frac{625}{20 \times 12} = \frac{625}{240} = \frac{125}{48} \text{ Result}$$

Case 3 Continued

September the 30 1822

N^o 5 What is the Value of 461 of a dollar
$$\frac{461}{100} = 4.61 \text{ Result}$$

N^o 6 What is the Value of 461 of a Shilling
$$\frac{461}{20} = 23.05 \text{ Result}$$

N^o 7 What is the Value of 86 of a cent
$$\frac{86}{100} = 0.86 \text{ Result}$$

N^o 8 What is the Value of 7 of a lb Troy
$$\frac{7}{12} = 0.583 \text{ Result}$$

N^o 9 What is the Value of 71 of 4 oz Troy
$$\frac{71}{48} = 1.479 \text{ Result}$$

N^o 10 What is the Value 761 of a day
$$\frac{761}{365} = 2.085 \text{ Result}$$

N^o 11 What is the Value of 67 of a league
$$\frac{67}{3} = 22.33 \text{ Result}$$

N^o 12 What is the Value of 712 of a furlong
$$\frac{712}{10} = 71.2 \text{ Result}$$

N^o 13 What is the Value of 6875 of a yard
$$\frac{6875}{36} = 190.97 \text{ Result}$$

Evolution: The square root

82^o What is the square
Root of 106729

$$\begin{array}{r} 106729 \text{ (327) } \text{Ans} \\ 327 \overline{)106729} \\ \underline{654} \\ 41329 \\ \underline{41329} \\ 0000 \end{array}$$

83^o What is the square
Root of 451584

$$\begin{array}{r} 451584 \text{ (672) } \text{Ans} \\ 672 \overline{)451584} \\ \underline{4032} \\ 48384 \\ \underline{48384} \\ 0000 \end{array}$$

84^o What is Square
Root of 36372961

$$\begin{array}{r} 36372961 \text{ (6031) } \text{Ans} \\ 6031 \overline{)36372961} \\ \underline{36372} \\ 0000 \end{array}$$

85^o What is the square
Root of 7576796

$$\begin{array}{r} 7576796 \text{ (2753) } \text{Ans} \\ 2753 \overline{)7576796} \\ \underline{5506} \\ 2070796 \\ \underline{2070796} \\ 0000 \end{array}$$

86^o What is the square
Root of 32364001

$$\begin{array}{r} 32364001 \text{ (5691) } \text{Ans} \\ 5691 \overline{)32364001} \\ \underline{32364} \\ 0000 \end{array}$$

87^o What is the square
Root of 4372594

$$\begin{array}{r} 4372594 \text{ (2091) } \text{Ans} \\ 2091 \overline{)4372594} \\ \underline{43725} \\ 0000 \end{array}$$

88^o What is the square
Root of 104976

$$\begin{array}{r} 104976 \text{ (324) } \text{Ans} \\ 324 \overline{)104976} \\ \underline{648} \\ 40176 \\ \underline{40176} \\ 0000 \end{array}$$

The square root Continued

89^o What is the square
Root of 00032754

$$\begin{array}{r} 00032754 \text{ (181) } \text{Ans} \\ 181 \overline{)00032754} \\ \underline{324} \\ 354 \\ \underline{354} \\ 0000 \end{array}$$

90^o What is the square
Root of 10

$$\begin{array}{r} 10 \text{ (31622) } \text{Ans} \\ 31622 \overline{)10} \\ \underline{961} \\ 389 \\ \underline{389} \\ 0000 \end{array}$$

Extraction of the square Root of a Vulgar fraction

91^o What is the square
Root of $\frac{7056}{9216}$

$$\begin{array}{r} \text{numerator } 7056 \text{ (84) } \text{Ans} \\ 84 \overline{)7056} \\ \underline{672} \\ 3360 \\ \underline{3360} \\ 0000 \end{array}$$

92^o What is the square
Root of $\frac{2704}{4225}$

$$\begin{array}{r} \text{numerator } 2704 \text{ (52) } \text{Ans} \\ 52 \overline{)2704} \\ \underline{260} \\ 1040 \\ \underline{1040} \\ 0000 \end{array}$$

93^o What is the square
Root of $\frac{475}{547}$

$$\begin{array}{r} 475 \text{ (218) } \text{Ans} \\ 218 \overline{)475} \\ \underline{436} \\ 390 \end{array}$$

94^o To extract the square Root of a mixed number
What is the square Root of $37\frac{29}{49}$

$$\begin{array}{r} 37\frac{29}{49} \text{ (61) } \text{Ans} \\ 61 \overline{)37\frac{29}{49}} \\ \underline{37} \phantom{\frac{29}{49}} \\ 00 \end{array}$$

78 *The Single Rule Continued* October 7 1829

87^o What Will gain by A^d buying 456 yards of linen at 8.5 per yard and sell it at 10.75 per yard

456	8.5	436
		32.5
		370.60
		308
		10.75
		456
		456
		32.5
		430.0
		468.70
		370.6
		209.8
		49.7

88^o A grocer bought 7.6 cwt of sugar at 40.1 per cwt and retailed it out at 45 per lb

7.6	40.1	40.1
		7.6
		280.6
		288.2
		4.5
		42.56
		84.48
		319.2
		304.76
		14.44
		5.28
		7.12

89^o A bought 3 cwt of cloves at 2.75 per lb which he afterwards sold for 60.11.6 how much did he gain by the transaction

3.15	2.75	3.15
		13.8
		17.5
		19.25
		50.11.6
		31.17.50
		60.11.6
		28.94.10

90^o If 1 yard of Ribbon sell for 45 cents how much will 345 yards bring

345	45	345
		45
		175
		135
		15.52.5

79 *Inverse Proportion* October 7 1829

91^o How long will 3 men be performing a piece of work which will occupy 5 men 40.5 days

3	202.5	40.5
		7.5
		67.5

92^o How many men can do as much work in 4 of a month as 16 can do in 4.5 months

16	4.5	4.5
		1.5
		2.0
		6.0

93^o How much silk 1.5 of a yard wide will line 25.5 yards of cloth that is 5 quarters wide

1.5	25.5	1.5
		25.5
		17.9
		17.00
		42.5

94^o If a board be 17.5 of a foot broad what length must it be to measure 12 square feet

17.5	12	12
		17.5
		4.5
		4.5

95^o A had 40.7 yards of linen as 1 4.5 25.6 for which B gave him 25.6 ells of holland at 45 per ell how much was the linen per yard

40.7	4.5	25.6
		41.5
		12.20
		10.24
		10.94
		40.7
		183.046
		33.50
		32.56
		1.240
		2.83046
		1.900
		1.688
		9.96552
		2.720
		2.442
		2.78

The Double Rule of Three

96^o If 2 persons receive 4.625 for 1 day labour how much should 4 persons have for 10 days

2	4.625	10.5
		10.5
		23.125
		4.625
		18.50
		15.000
		2.000
		4.17

Double Rule of Three Continued

83^o If the interest of 76.5[£] put 12.75 16.5 9.57 (16.24:57.6) second 44^o
 for 9.5 months be 15.25 7.5 1524 34200 2244
 What sum will gain 12.75 7267 5098
 6[£] in 12.75 months 5925 6720
 Double Rule of Three Answer 8.9[£] 6240
 1440

84^o How many men will reap 417.6 acres in 12 days
 If 5 men reap 52.2 acres in 6 days
 Answer 22

85^o If a cellar 22.5 feet long 17.3 feet wide and 10.25 feet deep be dug in 25 days by 6 men working 12.3 hours a day
 how many days of 8.2 hours should 9 men take to dig another measuring 45 feet long 22.5 wide and 12.5 deep
 Answer 12 days

Continued The Square Root

85^o A certain castle which is 45 yards high is surrounded by a ditch 60 yards wide
 What length must a ladder be to reach from the outside of the ditch to the top of the castle
 Answer 122

86^o A line 27 yards long will exactly reach from the top of a fort to the opposite of the river which is known to be 23 yards broad
 What is the height of the fort with reference to the note to extract mixed numbers
 Answer 141 4/2

87^o Suppose a ladder 40 feet long be so planted as to reach a window 33 feet from the ground on one side of the street and without moving it at the foot will reach a window on the other 21 feet high
 What is the breadth of the street
 Answer 44

Two ships depart from the same port one of them sails due west 57 leagues the other due south 84 leagues
 how far are they asunder?
 Answer 99.75 or 97 3/4

Alligation october the 21 1827

82° If 17 bushels of Wheat at 6 per bushel 40 bushels of rye at 4 per bushel and 12 bushels of barley at 3 per bushels be mixed together What will a bushel of the mixture be worth

$$\begin{array}{r}
 6 = 17 = 102 \\
 4 \times 40 = 160 \\
 3 \times 12 = 36 \\
 \hline
 71 \overline{) 298} \quad (4 \text{ s}) \\
 \underline{284} \\
 14 \\
 71 \overline{) 512} \quad (4 \text{ s}) \\
 \underline{441} \\
 71 \\
 71 \overline{) 721} \quad (10 \text{ s}) \\
 \underline{721} \\
 0
 \end{array}$$

83° If a grocer mix 2 cut of sugar at 56 per cut 1 cut at 45 per cut and 2 cut at 50 per cut What will be the value of 1 cut of the mixture

$$\begin{array}{r}
 2 = 56 = 112 \\
 1 = 45 = 45 \\
 2 = 50 = 100 \\
 \hline
 5 \overline{) 257} \\
 \underline{250} \\
 7 \\
 5 \overline{) 70} \\
 \underline{70} \\
 0
 \end{array}$$

84° A farmer mingled 20 bushels of Wheat at 5 per bushel and 36 bushels of Rye at 3 per bushel With 40 bushels of barley at 2 per bushel I desire to know the Worth of a bushel of this mixture

$$\begin{array}{r}
 5 = 20 = 100 \\
 3 = 36 = 108 \\
 2 = 40 = 80 \\
 \hline
 76 \overline{) 288} \quad (3 \text{ s}) \\
 \underline{228} \\
 60 \\
 76 \overline{) 60} \quad (0 \text{ s}) \\
 \underline{60} \\
 0
 \end{array}$$

85° If 4 ounces of Silver Worth 75 cents per ounce be melted With 8 ounces Worth 50 cents per ounce What will 1 ounce of the mixture be worth

$$\begin{array}{r}
 4 = 75 = 300 \\
 8 = 50 = 400 \\
 \hline
 12 \overline{) 700} \quad (58 \text{ s}) \\
 \underline{720} \\
 20 \\
 12 \overline{) 20} \quad (1 \text{ s}) \\
 \underline{12} \\
 8 \\
 12 \overline{) 8} \quad (0 \text{ s}) \\
 \underline{8} \\
 0
 \end{array}$$

86° A Wine merchant mixes 12 gallons of wine at 4.10 per gallon With 24 gallons at 5 Shillings and 6 pence and 16 gallons at 3 s What is a gallon of the mixture Worth

$$\begin{array}{r}
 12 = 252 = 2784 \\
 24 = 264 = 6336 \\
 16 = 301 = 4816 \\
 \hline
 52 \overline{) 13736} \quad (26 \text{ s}) \\
 \underline{10400} \\
 3336 \\
 52 \overline{) 3336} \quad (64 \text{ p}) \\
 \underline{3336} \\
 0
 \end{array}$$

Case 2 Examples in Alligation

87° A vintner has three kinds of Wines viz one kind at 160 cents per gallon another at 180 cents and another at 240 cents how much of each kind must he take to make a mixture Worth 190 cents per gallon

$$\begin{array}{r}
 \text{Cents} \\
 160 \text{ --- } 5 \text{ at } 160 \\
 180 \text{ --- } 50 \text{ at } 180 \\
 240 \text{ --- } 30 \text{ at } 240 \\
 \hline
 \text{mean } 190
 \end{array}$$

88° How much sugar at 4 at 6 and 11 per pound must be mixed together to make a composition Worth 7 per pound

$$\begin{array}{r}
 \text{mean rate } 7 \\
 4 \text{ --- } 4 \text{ at } 4 \\
 6 \text{ --- } 7 \text{ at } 6 \\
 11 \text{ --- } 3 \text{ at } 11
 \end{array}$$

89° It is Required to mix several sorts of Wine viz at 9 1/2 and 21 per gallon With Water that the mixture may be Worth 12 per gallon how much of each sort must be taken

$$\begin{array}{r}
 \text{mean Rate } 12 \\
 9 \text{ --- } 3 \text{ at } 9 \\
 15 \text{ --- } 3 \text{ at } 15 \text{ ANSW} \\
 21 \text{ --- } 9 \text{ at } 21 \\
 9 \text{ of Water}
 \end{array}$$

90° A grocer has several sorts of Sugar viz one sort at 12 cents per lb another at 11 cents a third at 9 cents and a fourth at 8 cents per lb how much of each sort must he take to make a mixture Worth 10 cents per lb

$$\begin{array}{r}
 12 \text{ --- } 2 \text{ at } 12 \\
 11 \text{ --- } 1 \text{ at } 11 \\
 9 \text{ --- } 1 \text{ at } 9 \\
 8 \text{ --- } 2 \text{ at } 8
 \end{array}$$

Case 3 in Allegation

N^o 2 How much barley at 30 cents per bushel Rye at 36 cents and Wheat at 48 cents must be mixed With 12 bushels of oats at 18 cents to make a mixture worth 22 cents per bushel

$$\begin{array}{r} 12 \times 18 = 216 \\ 30x + 36y + 48z = 264 \\ x + y + z = 12 \end{array}$$

Answers: 4, 4, 4

N^o 3 How much Wine at 5, 6 and 6 per gallon must be mixed With 3 gallons at 4 per gallon so as to be Worth 5-4 per gallon

$$\begin{array}{r} 5x + 6y + 6z = 20 \\ x + y + z = 3 \end{array}$$

Answers: 1, 1, 1

N^o 4 How much Tea at 12, 10 and 8 per lb must be mixed With 20 pounds at 4 per lb to make a mixture Worth 8 per lb

$$\begin{array}{r} 12x + 10y + 8z = 160 \\ x + y + z = 20 \end{array}$$

Answers: 4, 4, 12

Case 4 October the 23, 1823

N^o 2 A brewer has three sorts of beer Dig at 10, 8 and 6 per gallon how much of each sort must he take to make a mixture of 30 gallons Worth 7 per gallon

$$\begin{array}{r} 10x + 8y + 6z = 210 \\ x + y + z = 30 \end{array}$$

Answers: 10, 10, 10

N^o 3 A goldsmith has gold of 15, 17, 20 Carrats fine and Would melt together of each of these So much as to make a mass of 40 of 18 Carrats fine how much of each sort is necessary

$$\begin{array}{r} 15x + 17y + 20z = 720 \\ x + y + z = 40 \end{array}$$

Answers: 16, 12, 12

N^o 4 How many gallons of Water must be mixed With Wine at 4 per gallon so as to fill a Vessel of 80 gallons that may be sold at 2 and 9 per gallon

$$\begin{array}{r} 4x + 2y = 80 \\ x + y = 80 \end{array}$$

Answers: 80, 0

Continued Rule 5 August the 27

N^o 20 Add 7/10 of a pound to 3/10 of a shilling

$$\begin{array}{r} 7/10 \text{ lb} = 14/20 \\ 3/10 \text{ sh} = 3/20 \\ \hline 17/20 \end{array}$$

N^o 21 Add 1/2 of a pound to 1/4 of a shilling

$$\begin{array}{r} 1/2 \text{ lb} = 10/20 \\ 1/4 \text{ sh} = 5/20 \\ \hline 15/20 \end{array}$$

N^o 22 Add 3/4 of a penny to 1/2 of a pound

$$\begin{array}{r} 3/4 \text{ p} = 3/4 \\ 1/2 \text{ lb} = 12/24 \\ \hline 15/24 \end{array}$$

N^o 23 Add 1/2 pound Troy to 1/2 of an ounce

$$\begin{array}{r} 1/2 \text{ lb Troy} = 12/24 \\ 1/2 \text{ oz} = 1/2 \\ \hline 13/24 \end{array}$$

N^o 24 Add 3/4 of a mile to 1/4 of a furlong

$$\begin{array}{r} 3/4 \text{ mi} = 3/4 \\ 1/4 \text{ fur} = 1/4 \\ \hline 1 \end{array}$$

N^o 25 Add 1/2 of a yard to 1/3 of a foot

$$\begin{array}{r} 1/2 \text{ yd} = 1/2 \\ 1/3 \text{ ft} = 1/3 \\ \hline 5/6 \end{array}$$

N^o 26 Add 1/3 of a day to one 1/5 of an hour

$$\begin{array}{r} 1/3 \text{ day} = 1/3 \\ 1/5 \text{ hr} = 1/5 \\ \hline 8/15 \end{array}$$

Rule 5 August the 27 1822

N¹⁸ From $\frac{7}{8}$ of a pound
take $\frac{3}{10}$ of a shilling

$$\begin{array}{r} \frac{7}{8} \text{ lb} = 15 \text{ s } 6 \frac{1}{2} \text{ d} \\ \frac{3}{10} \text{ s} = 3 \frac{1}{2} \text{ d} \\ \hline 11 \text{ s } 3 \frac{1}{2} \text{ d} \end{array}$$

N¹⁷ From $\frac{3}{4}$ of a pound
take $\frac{3}{4}$ of a shilling

$$\begin{array}{r} \frac{3}{4} \text{ lb} = 9 \text{ s } 0 \text{ d} \\ \frac{3}{4} \text{ s} = 7 \frac{1}{2} \text{ d} \\ \hline 1 \text{ s } 4 \text{ d } 3 \text{ farthings} \end{array}$$

N²⁰ From $\frac{3}{4}$ of a pound troy
take $\frac{1}{6}$ of an ounce

$$\begin{array}{r} \frac{3}{4} \text{ lb troy} = 18 \text{ oz } 12 \text{ dwt} \\ \frac{1}{6} \text{ oz} = 2 \frac{1}{2} \text{ dwt} \\ \hline 15 \text{ oz } 9 \frac{1}{2} \text{ dwt} \end{array}$$

N²¹ From $\frac{1}{2}$ of a yard
take $\frac{2}{5}$ of an inch

$$\begin{array}{r} \frac{1}{2} \text{ yd} = 18 \text{ in} \\ \frac{2}{5} \text{ in} = 4 \text{ lines} \\ \hline 14 \text{ in } 4 \text{ lines} \end{array}$$

N²² From $\frac{5}{8}$ of a pound
take $\frac{2}{3}$ of three $\frac{3}{4}$ of a shilling

$$\begin{array}{r} \frac{5}{8} \text{ lb} = 15 \text{ s } 6 \frac{1}{2} \text{ d} \\ \frac{2}{3} \text{ of } 3 \times \frac{3}{4} \text{ s} = 1 \text{ s } 7 \frac{1}{2} \text{ d} \\ \hline 14 \text{ s } 11 \frac{1}{2} \text{ d} \end{array}$$

Multiplication of Vulgar fractions

N¹ Multiply $\frac{7}{8}$ by $\frac{6}{7}$

$$\frac{7}{8} \times \frac{6}{7} = \frac{6}{8} = \frac{3}{4} \text{ Answer}$$

N² Multiply $\frac{1}{2}$ by $\frac{3}{8}$

$$\frac{1}{2} \times \frac{3}{8} = \frac{3}{16} \text{ Answer}$$

N³ Multiply $\frac{6}{7}$ by $\frac{18}{6}$

$$\frac{6}{7} \times \frac{18}{6} = \frac{18}{7} = 2 \frac{4}{7} \text{ Answer}$$

Multiplication Continued August 21

N⁴ Multiply $12 \frac{3}{4}$ by $7 \frac{1}{2}$

$$\begin{array}{r} 12 \frac{3}{4} \times 7 \frac{1}{2} \\ \frac{3}{4} \times \frac{1}{2} = \frac{3}{8} \\ \frac{3}{4} \times 7 = 5 \frac{3}{4} \\ 12 \times 7 \frac{1}{2} = 90 \frac{1}{2} \\ \hline 96 \frac{3}{8} \end{array}$$

N⁵ Multiply $7 \frac{1}{4}$ by $8 \frac{1}{2}$

$$\begin{array}{r} 7 \frac{1}{4} \times 8 \frac{1}{2} \\ \frac{1}{4} \times \frac{1}{2} = \frac{1}{8} \\ \frac{1}{4} \times 8 = 2 \\ 7 \times 8 \frac{1}{2} = 60 \frac{1}{2} \\ \hline 62 \frac{5}{8} \end{array}$$

N⁶ Multiply $4 \frac{1}{2}$ by $\frac{1}{2}$

$$4 \frac{1}{2} \times \frac{1}{2} = 2 \frac{1}{4} \text{ Answer}$$

N⁷ Multiply $\frac{7}{8}$ by $13 \frac{3}{4}$

$$\begin{array}{r} \frac{7}{8} \times 13 \frac{3}{4} \\ \frac{7}{8} \times \frac{3}{4} = \frac{21}{32} \\ \frac{7}{8} \times 13 = 91 \frac{1}{8} \\ \hline 91 \frac{21}{32} \end{array}$$

N⁸ Multiply $\frac{1}{2}$ of $\frac{1}{4}$ by $\frac{7}{10}$ of $\frac{11}{12}$

$$\frac{1}{2} \times \frac{1}{4} \times \frac{7}{10} \times \frac{11}{12} = \frac{77}{480}$$

N⁹ Multiply $4 \frac{3}{4}$ by $\frac{2}{3}$ of $\frac{3}{4}$

$$4 \frac{3}{4} \times \frac{2}{3} \times \frac{3}{4} = 4 \frac{1}{2}$$

N¹⁰ Multiply $\frac{1}{2}$ of $\frac{1}{2}$ by $\frac{3}{4}$

$$\frac{1}{2} \times \frac{1}{2} \times \frac{3}{4} = \frac{3}{16}$$

N¹¹ Multiply $2 \frac{1}{2}$ by $1 \frac{1}{4}$
and multiply the product by $\frac{1}{2}$ of $\frac{3}{4}$ of $\frac{3}{4}$

$$2 \frac{1}{2} \times 1 \frac{1}{4} = 3 \frac{3}{8}$$

$$3 \frac{3}{8} \times \frac{1}{2} \times \frac{3}{4} \times \frac{3}{4} = 3 \frac{27}{64}$$

Henry Ferguson

31 1829
 Division of Vulgar fractions August

N^o 2 Divide $\frac{4}{7}$ by $\frac{2}{3}$ $\frac{3-42}{2-72} \frac{12}{4} \frac{6}{7}$ Answer

N^o 3 Divide $\frac{17}{21}$ by $\frac{3}{5}$ $\frac{5}{3} \frac{17}{21} \dots 85$ (3) $\frac{85}{63}$ Answer

N^o 4 Divide $\frac{1}{2}$ by $4\frac{3}{10}$ $\frac{1}{2}$ by $4\frac{3}{10}$ $\frac{10}{2} \frac{10}{48} \frac{96}{10}$ Answer

N^o 5 Divide $3\frac{1}{2}$ by $7\frac{1}{2}$ $\frac{6}{17} \frac{17}{6} \frac{38}{14} \frac{38}{14}$ Answer

N^o 6 Divide $\frac{7}{8}$ by 4 $\frac{7}{8} \frac{7}{32}$ Answer

N^o 7 Divide 4 by $\frac{7}{8}$ $\frac{8}{4} \frac{7}{7} \frac{32}{7}$ Answer

N^o 8 Divide $\frac{1}{2}$ of $\frac{3}{6}$ by $\frac{2}{3}$ of $\frac{4}{12}$ $\frac{12}{6} \frac{2}{6} \frac{24}{36}$ Answer

N^o 9 Divide $\frac{1}{4}$ of $\frac{17}{1}$ by $\frac{2}{3}$ of $\frac{3}{12}$ $\frac{12}{6} \frac{17}{30}$ Answer

N^o 10 Divide $4\frac{2}{7}$ by $5\frac{1}{7}$ of $4:20$ $\frac{9}{20} = \frac{41}{180}$ Answer

N^o 11 Divide $\frac{2}{3}$ of $\frac{1}{2}$ by $\frac{5}{7}$ of $4\frac{3}{4}$ $\frac{235}{171}$ Answer

N^o 12 Divide $520\frac{1}{5}$ by 4 211364 Answer

31 1829
 The Single Rule of three August

N^o 1 $\frac{1}{4}$ of a yard cost $\frac{2}{3}$ of a shilling What will $\frac{3}{4}$ of a yard come to

N^o 2 $\frac{3}{4}$ of a yard cost $\frac{7}{8}$ of a pound What will $\frac{1}{4}$ of a yard come to

N^o 3 $\frac{11}{13}$ of a lb of sugar cost $\frac{7}{8}$ of a shilling What cost $\frac{25}{43}$ of a lb

N^o 4 $\frac{1}{4}$ of a yard of lawn cost 7 shillings and 3 pence What will 10 $\frac{1}{2}$ yards cost

N^o 5 $\frac{9}{14}$ yards cost 7 What is the Value of 16 $\frac{1}{4}$ yards

N^o 6 What is the Value of 100 yards of cloth at 1 $\frac{1}{2}$ shillings per yard

Double Rule of Three

N^o 1 If $\frac{3}{4}$ yard of cloth $\frac{7}{8}$ $\frac{3}{4}$ $\frac{7}{8}$ $\frac{2}{5}$ $\frac{5}{8}$ $\frac{1}{4}$
 of $\frac{1}{2}$ yard Wide Cost $\frac{3}{4} \times \frac{7}{8} = \frac{21}{32}$ $\frac{2}{5} \times \frac{5}{8} = \frac{10}{40} = \frac{1}{4}$
 L What is the Value $\frac{32}{21} = 1 \frac{11}{21}$ $\frac{11}{21} \times \frac{1}{4} = \frac{11}{84}$ $\frac{11}{84} \times \frac{1}{5} = \frac{11}{420}$
 of $\frac{5}{8}$ yard $1 \frac{3}{4}$ yards Wide $\frac{11}{336}$ $\frac{11}{336} \times \frac{2}{5} = \frac{11}{840}$
 of the same quality $\frac{11}{840} \times 480 = 6 \frac{1}{7}$

N^o 2 If 24 yards of cloth $13 \frac{1}{2}$ $\frac{24}{7}$ $\frac{13}{8}$ $\frac{35}{18}$ $\frac{38 \frac{1}{2}}{4}$
 wide cost $3 \frac{1}{2}$ L What $\frac{7}{4}$ $\frac{8}{5}$ $\frac{15}{20}$ $\frac{18}{15}$ $\frac{15}{4}$
 is the Value of 384 Yds $\frac{7}{4} \times \frac{8}{5} = \frac{14}{5}$ $\frac{14}{5} \times \frac{15}{20} = \frac{21}{5}$ $\frac{21}{5} \times \frac{18}{15} = \frac{252}{5}$
 2 Yds Wide $\frac{252}{5} \times \frac{15}{4} = 1512 \frac{3}{4}$
 Answer $144 \overline{) 110160} \begin{matrix} 76 \\ 736 \\ 259 \\ 72 \\ 144 \end{matrix}$

N^o 3 If 3 men Receive $\frac{1}{7}$ $17 \frac{1}{2}$ $\frac{89}{10}$ $\frac{20}{7}$ $\frac{100}{3}$ $\frac{37}{2}$ $\frac{37}{10}$ $\frac{20}{7}$ $\frac{401}{20}$
 L for 17 1/2 days $\frac{117}{2}$ $\frac{71580}{2}$ &
 labour how much must $\frac{46}{30}$ $\frac{1427560}{30}$
 20 men have for 100 1/4 days $\frac{2390}{3}$ $\frac{3540}{3}$
 Answer $468 \overline{) 3540} \begin{matrix} 7 \\ 374 \\ 374 \\ 12 \\ 96 \\ 8 \\ 468 \end{matrix}$

N^o 4 If 50 L in 5 months $\frac{50}{144}$ $\frac{5}{4}$ $\frac{237}{135}$ $\frac{135}{17}$ $\frac{3}{10}$ $\frac{13}{7}$ $\frac{13}{7}$
 gain 2 1/4 on interest in $\frac{325}{44}$ $\frac{40}{3}$ $\frac{10}{10}$ $\frac{13}{10}$
 What time will 135 L $\frac{40}{3}$ $\frac{525}{144}$ $\frac{13000}{432}$ $\frac{13}{10}$
 gain 1 1/2 L $\frac{13000}{15600}$ $\frac{13000}{15600}$ Answer

Continued Double Rule Sept 18 1769

N^o 4 The carriage of 60 cwt $\frac{60}{20}$ $\frac{20}{145}$ $\frac{20}{2}$ $\frac{30}{16}$ $\frac{57}{1}$ $\frac{57}{16}$
 20 miles cost 145 dollars $\frac{60}{20} \times \frac{20}{145} = \frac{60}{145}$ $\frac{60}{145} \times \frac{20}{2} = \frac{240}{145}$
 What Weight could have $\frac{240}{145} \times \frac{16}{1} = \frac{3840}{145}$
 Carried 30 miles for $\frac{3840}{145} \times \frac{16}{1} = \frac{61440}{145}$
 dollars $\frac{61440}{145} = 423 \frac{60}{145}$
 Answer $15720 \overline{) 248800} \begin{matrix} 15 \\ 1392 \\ 6960 \\ 6960 \\ 0000 \end{matrix}$

Addition of Decimals

N^o 1 Add 12. 12. 12. 12. and 12.
 together $12 + 12 + 12 + 12 + 12 = 60$
 N^o 2 Add 15. 12. 12. 12. 12. 12.
 and 12. 12. 12. together $15 + 12 + 12 + 12 + 12 + 12 + 12 + 12 + 12 = 105$
 N^o 3 Add 4. 4. 4. 4. 4. 4. 4.
 and 4. 4. 4. together $4 + 4 + 4 + 4 + 4 + 4 + 4 + 4 + 4 + 4 = 40$

Subtraction of Decimals

N^o 1 From 100. 11. take 1. 14.
 N^o 2 From 14. 15. take 4.
 N^o 3 From 12. 12. take 12.

70 Multiplication of Decimals

N³ Multiply 37.7 by 46.5

37.7
46.5

1885
15274

1762.55

N⁴ Multiply 36.5 by 7.27

36.5
7.27

2555
2555

265.365

N⁵ Multiply 27.851 by 952

27.851
952

1491552
2509552

26597112

N⁶ Multiply 3.72 by .176

3.72
.176

2332
5228

572
76832

N⁷ Multiply .285 by .003

.285
.003

000855

N⁸ Multiply 4.001 by .004

4.001
.004

016004

N⁹ Multiply .00071 by .121

.00071
.121

0008591

Continued Rule 2 of Multipli

N¹⁰ Divide Multiply 245.378263 by 72.4585 Reserving 5 decimal places in the product

245.378263
72.4585

1226391315
1765026102

136134787
751513672

17172756326
177795355043235

N¹¹ Multiply 248264 by 729234 Reserving 6 decimal in the product

248264
729234

993056
174772

496828
1241820

496828
1757843

180049493776

Henry Ferguson

71 Division of Decimals

N¹ Divide 17.25 by 385

385)17.250
1155

5700
5675

250

N² Divide .1606 by 44

44)1606.000
154

660
660

000

N³ Divide .1606 by 404

404)1606.000
400

600
608

200

N⁴ Divide 1606 by 44

44)1606.000
36

466
464

200

N⁵ Divide 7 by 7

7)7.00
1.00

N⁶ Divide .7 by 7

.7)7.00
1.00

N⁷ Divide 186.7 by 7476

7476)186.700
25

186700
186720

200

N⁸ Divide 234.70525 by 64.25

64.25)234.70525
3652

17750
17725

2500
2500

0000

N⁹ Divide 1.0012 by .075

.075)1.0012
13349

750
2512

2500
1200

0000

Rule 2 of Decimals September 29 1827

N¹⁰ Divide 721.17562 by 2.257432

2.257432)721.17562
319467

431709
431709

0000

N¹¹ Divide 10.167825 by 3.14159

3.14159)10.167825
323555

673270
673270

0000

2.257432)721.17562
319467

431709
431709

0000

Reduction of Decimals

N^o 1 Reduce $\frac{1}{4}$ to a decimal $\frac{1}{4} = \frac{25}{100}$ Result .25

N^o 2 Reduce $\frac{1}{2}$ to a decimal $\frac{1}{2} = \frac{50}{100}$ Result .5

N^o 3 Reduce $\frac{3}{4}$ to a decimal $\frac{3}{4} = \frac{75}{100}$ Result .75

N^o 4 Reduce $\frac{3}{5}$ to a decimal $\frac{3}{5} = \frac{60}{100}$ Result .6

N^o 5 Reduce $\frac{1}{5}$ to a decimal $\frac{1}{5} = \frac{20}{100}$ Result .04

N^o 6 Reduce $\frac{5}{25}$ to a decimal $\frac{5}{25} = \frac{20}{100}$ Result .2

N^o 7 Reduce $\frac{1}{2}$ of $\frac{2}{3}$ to a decimal $\frac{1}{2} \times \frac{2}{3} = \frac{2}{6} = \frac{33}{100}$ Result .333

N^o 8 Reduce $\frac{1}{4}$ of $\frac{1}{5}$ to a decimal $\frac{1}{4} \times \frac{1}{5} = \frac{1}{20} = \frac{5}{100}$ Result .05

N^o 9 Reduce $\frac{1}{100}$ to a decimal $\frac{1}{100} = \frac{1}{100}$ Result .01

Single Position October the 26

N^o 2 A person after spending $\frac{1}{4}$ and $\frac{1}{5}$ of his money had 60 \$ left how much had he at first
Suppose 12
 $\frac{1}{4}$
 $\frac{1}{5}$
 $\frac{1}{4} + \frac{1}{5} = \frac{9}{20}$
 $12 \times \frac{9}{20} = 5.40$
 $12 - 5.40 = 6.60$
Answer 66

N^o 3 What number of dollars is that of which the $\frac{1}{4}$ and $\frac{1}{5}$ make 60
 $\frac{1}{4} + \frac{1}{5} = \frac{9}{20}$
 $\frac{9}{20} \times 60 = 27$
Answer 27

N^o 4 A person having about him a certain number of crowns said a third a fourth and a fifth of them were added together the sum would be 45 how many crowns had he
Suppose 12
 $\frac{1}{3}$
 $\frac{1}{4}$
 $\frac{1}{5}$
 $\frac{1}{3} + \frac{1}{4} + \frac{1}{5} = \frac{47}{60}$
 $45 \times \frac{60}{47} = 57.45$
Answer 57

N^o 5 What is the age of a person who says that if $\frac{1}{3}$ of the years have lived be multiplied by 7 and $\frac{1}{2}$ of them be added to the product the sum will be 292
 $\frac{1}{3} \times 7 = \frac{7}{3}$
 $\frac{1}{2}$
 $\frac{7}{3} + \frac{1}{2} = \frac{14}{6} + \frac{3}{6} = \frac{17}{6}$
 $292 \times \frac{6}{17} = 103.18$
Answer 103

N^o 6 A schoolmaster being asked how many scholars he had answered if to double the number I add $\frac{1}{2}$ & $\frac{1}{4}$ of them I shall have 333 how many had he
Suppose 12
 $\frac{1}{2}$
 $\frac{1}{4}$
 $12 + 6 + 3 = 21$
 $21 \times 12 = 252$
Answer 252

N^o 7 A certain sum of money is to be divided among 4 persons in such a manner that the 1st shall have $\frac{1}{2}$ of it the 2^d the $\frac{1}{3}$ the 3^d and the 4th the remainder which is 20 \$ What is the sum
 $\frac{1}{2} + \frac{1}{3} = \frac{5}{6}$
 $20 \times \frac{6}{1} = 120$
Answer 120

Continued
 First Answer 11-3
 Second Answer 11-4
 Difference = 5-1 Answer

October 1833 Isaac Hair Dr To Cost Linbarger 50
 November 1833 Samuel Davis Dr To Cost 50
 November 1833 J L King Dr To Cost not paid
 December 1833 John B. [unclear] Dr To Cost 45
 Dec. John B. [unclear] the same day Dr to cost
 December 24 1833 warrant executed on Mark Gately
 in favour of Enoch Hall
 December 27 = 1833 warrant executed on Jesse Mullins
 in favour of James McCall Cost 50
 the same day one executed on Thos of the
 same name in favour of Jacob Hacker Cost not known

April the 17th 1843 when Martha Jane
 Stuart left my house

December 1841 Martha Jane Stuart came to live
 with me H Ferguson

50	corn	
50	corn	
74	wheat	31
25	cash	12
33 1/2	corn	27 1/2
25	sheep	31
24	horses	31
2035		25
1245		63
432		25
1245		1275 1/2

Continued case

87^o If 100 stones be laid two yards distant
 from each other in a right line and
 a basket placed two yards from the first
 stone what distance must a person travel
 to gather them singly into the basket

100
99
98
97
96
95
94
93
92
91
90
89
88
87
86
85
84
83
82
81
80
79
78
77
76
75
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16
15
14
13
12
11
10
9
8
7
6
5
4
3
2
1

88^o A merchant sold 1000 yards of linnen at
 2 pms for the first yards 4 for the second
 and 6 for the third & increasing two pms
 every yard how much did the linnen
 produce when the pms were afterwards
 sold at 12 for a farthing

1000
999
998
997
996
995
994
993
992
991
990
989
988
987
986
985
984
983
982
981
980
979
978
977
976
975
974
973
972
971
970
969
968
967
966
965
964
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940
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937
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930
929
928
927
926
925
924
923
922
921
920
919
918
917
916
915
914
913
912
911
910
909
908
907
906
905
904
903
902
901
900

Case 2 October 28 1829

89^o There are 21 men whose age are equally
 distant from each other in arithmetical
 progression the youngest is 20 years old and
 the eldest 60 what is the common difference
 of their ages and the age of each man

21	60
20	59
19	58
18	57
17	56
16	55
15	54
14	53
13	52
12	51
11	50
10	49
9	48
8	47
7	46
6	45
5	44
4	43
3	42
2	41
1	40

90^o A debt is to be paid at 16 different
 payments in arithmetical progression
 the first payment to be 14 and the last
 100 what is the common difference each
 payment and the whole debt

16	100
15	86
14	72
13	58
12	44
11	30
10	16
9	2
8	
7	
6	
5	
4	
3	
2	
1	

91^o A person is to travel from Philadelphia
 to a certain place in 16 days and
 go but 4 miles the first day increasing
 every day by an equal excess so that the last
 days journey may be 19 miles what is the difference
 and what is the whole distance

16	19
15	18
14	17
13	16
12	15
11	14
10	13
9	12
8	11
7	10
6	9
5	8
4	7
3	6
2	5
1	4

5100400
 45714820
 5100400
 96909120
 775272960
 96909120
 1749364160
 12210549120
 1749364160
 29654190720
 16
 177935144520
 29654190720
 474467051520
 257233525760
 474467051520
 7113005772800
 14
 28468025091200
 7113005772800
 99638080817200
 13
 208714242457600
 99638080817200
 1295295050649600

47900100) 1295295050649600
 9580052
 33729120
 55550812
 19907306
 17160064
 7472424
 4790016
 26724089
 25950020
 28740096
 28740096

12) 2704156
 2) 225346
 11267+6+4 answer

Addition of Duodecimals December 25

400 of Four Boards in the Partition building
 At 1884 ft 9 9/8 how many feet are there in all

80 There are six mahogany boards the first measure 27.3 the second 25.11 the third 23.10 the fourth 20.7 the fifth 20.6 the sixth 18.5 how many feet do they contain

feet	Inches
27	3
25	11
23	10
20	7
20	6
18	5
156	8 1/2

Subtraction of Duodecimals Dec 25

80 Off 17 feet 10 in be cut from a board which contains 41 feet 7 inches how much will be left

Bought a raft of boards containing 59621 feet 8 in of which were since sold three parcels each 14905 ft 5 in how many feet remain

Multiplication of Duod Dec 25

82 Multiply 9 feet 11 inches by 3 feet 6 inches
 83 Multiply 3 feet 11 inches by 7 feet 5 inches
 84 Multiply 8 feet 6 inches 7" by 7 feet 3 inches 8"
 85 Multiply 28 feet 10 inches 6" by 3 feet 2 inches 4 seconds

Case 2 December the 27

82 Multiply 76 feet 7 inches by 17 feet 10 inches
 83 Multiply 127 feet 6 inches by 184 feet 8 inches
 84 Multiply 71 feet 2 inches 6" by 81 feet 1 inch 8"

Application December 29 1829

81 A certain board is 28 feet 10 inches 6" long and 3 feet 2 inches 4" wide how many square feet does it contain
 82 If a board be 23 feet 3 inches long 3 feet 6 inches wide how many square feet does it

Application Continued December the 29

87^o A Certain partition is 82 feet 6 Inches
by 13 feet 8 Inches how many square
feet does it contain

$$\begin{array}{r} 82\text{ feet } 6\text{ inches} \\ \times 13\text{ feet } 8\text{ inches} \\ \hline 656 \\ 2460 \\ \hline 10751\text{ } \end{array}$$

87^o If a floor be 77 feet 8 Inches by
33 feet 11 inches how many square
feet are therein

$$\begin{array}{r} 77\text{ feet } 8\text{ inches} \\ \times 33\text{ feet } 11\text{ inches} \\ \hline 231 \\ 2584 \\ \hline 25918\text{ } \end{array}$$

87^o If the ceiling be 57 feet 9 Inches long
and 24 feet 6 inches broad how
many square yards does it contain

$$\begin{array}{r} 57\text{ feet } 9\text{ inches} \\ \times 24\text{ feet } 6\text{ inches} \\ \hline 2316 \\ 11520 \\ \hline 14136\text{ } \end{array}$$

87^o What Will the plaistering of a ceiling
come to at 10 pence per yd supassing
the length 21 feet 8 Inches and the
breadth 14 feet 10 Inches

$$\begin{array}{r} 21\text{ feet } 8\text{ inches} \\ \times 14\text{ feet } 10\text{ inches} \\ \hline 308 \\ 3080 \\ \hline 3388\text{ } \end{array}$$

87^o What Will the paving of
of a Court yard come to
at 4 3/4 pence per yd the length
being 58 feet 6 Inches and the
breadth 54 feet 9 Inches

$$\begin{array}{r} 58\text{ feet } 6\text{ inches} \\ \times 54\text{ feet } 9\text{ inches} \\ \hline 2538 \\ 25380 \\ \hline 31917\text{ } \end{array}$$

Promiscuous Questions December

87^o A merchant had 1000 dollars in bank
he drew out at one time \$237.50 at
another time \$116.09 and at another
time \$241.06 after which he deposited
at one time \$15.00 and at another time
\$750.50 how much had he in bank
after making the last deposit

$$\begin{array}{r} 1000.00 \\ - 237.50 \\ - 116.09 \\ - 241.06 \\ \hline 405.35 \\ + 15.00 \\ + 750.50 \\ \hline 1170.85 \end{array}$$

87^o Sold 8 bales of linen 4 of which
contain 9 pieces each and in each
piece was 35 yards the other 4 bales
contained 12 pieces each and in each
piece was 27 yards how many pieces and
how many yards were in all

$$\begin{array}{r} 4\text{ bales } \times 9\text{ pieces} = 36\text{ pieces} \\ 4\text{ bales } \times 12\text{ pieces} = 48\text{ pieces} \\ \hline 84\text{ pieces} \end{array}$$

87^o A Was born when B was 21 years of age
how old will A be when B is 47 and
what will be the age of B when A is 60

87^o If 179 4 10 be divided among 4 men
& 2 women & 9 boys so as that each
man shall receive twice as much
as a woman and each woman
twice as much as a boy what will
be the share of each

$$\begin{array}{r} 179\text{ } 4\text{ } 10 \\ \div 4\text{ men} \\ \hline 44\text{ } 8\text{ } 10 \end{array}$$

87^o How many bushels of wheat at \$1.12
per bushel can I have for \$125.76

$$\begin{array}{r} 125.76 \\ \div 1.12 \\ \hline 112.2857 \end{array}$$

87^o What will 2 cent of iron come
to at \$4.56 per cent

$$\begin{array}{r} 4.56 \\ \times 2 \\ \hline 9.12 \end{array}$$

110 Examples Promiscuous Questions ^{the 1530} January

Q¹⁹ What is the interest of £47.10 for 4 years and 52 days at 4% per cent

52 days / 365 = 10/719

47.10 × 4 = 188.40

188.40 × 10/719 = 2.62

188.40 + 2.62 = 191.02

Q²⁰ If 100 in 5 years gain £10 in What time will any sum of money double itself at the same rate of interest

100 → 110 in 5 years

110 → 121 in 5 years

121 → 133.1 in 5 years

133.1 → 146.41 in 5 years

146.41 → 161.05 in 5 years

161.05 → 177.16 in 5 years

177.16 → 194.88 in 5 years

194.88 → 214.57 in 5 years

214.57 → 236.22 in 5 years

236.22 → 260.00 in 5 years

260.00 → 286.00 in 5 years

286.00 → 314.66 in 5 years

314.66 → 346.53 in 5 years

346.53 → 381.78 in 5 years

381.78 → 420.96 in 5 years

420.96 → 463.86 in 5 years

463.86 → 510.61 in 5 years

510.61 → 561.66 in 5 years

561.66 → 617.42 in 5 years

617.42 → 677.31 in 5 years

677.31 → 741.94 in 5 years

741.94 → 811.93 in 5 years

811.93 → 887.88 in 5 years

887.88 → 969.42 in 5 years

969.42 → 1057.28 in 5 years

1057.28 → 1152.10 in 5 years

1152.10 → 1254.76 in 5 years

1254.76 → 1365.04 in 5 years

1365.04 → 1483.79 in 5 years

1483.79 → 1610.77 in 5 years

1610.77 → 1746.82 in 5 years

1746.82 → 1892.71 in 5 years

1892.71 → 2049.26 in 5 years

2049.26 → 2217.41 in 5 years

2217.41 → 2407.14 in 5 years

2407.14 → 2619.45 in 5 years

2619.45 → 2854.99 in 5 years

2854.99 → 3115.48 in 5 years

3115.48 → 3401.76 in 5 years

3401.76 → 3715.68 in 5 years

3715.68 → 4058.22 in 5 years

4058.22 → 4439.44 in 5 years

4439.44 → 4851.38 in 5 years

4851.38 → 5296.26 in 5 years

5296.26 → 5775.68 in 5 years

5775.68 → 6290.27 in 5 years

6290.27 → 6840.69 in 5 years

6840.69 → 7429.61 in 5 years

7429.61 → 8058.76 in 5 years

8058.76 → 8730.04 in 5 years

8730.04 → 9445.48 in 5 years

9445.48 → 10208.12 in 5 years

10208.12 → 11020.13 in 5 years

11020.13 → 11883.74 in 5 years

11883.74 → 12791.21 in 5 years

12791.21 → 13754.88 in 5 years

13754.88 → 14776.11 in 5 years

14776.11 → 15856.34 in 5 years

15856.34 → 16997.92 in 5 years

16997.92 → 18203.41 in 5 years

18203.41 → 19475.46 in 5 years

19475.46 → 20815.74 in 5 years

20815.74 → 22226.91 in 5 years

22226.91 → 23711.64 in 5 years

23711.64 → 25272.69 in 5 years

25272.69 → 26912.84 in 5 years

26912.84 → 28635.96 in 5 years

28635.96 → 30443.91 in 5 years

30443.91 → 32339.66 in 5 years

32339.66 → 34327.17 in 5 years

34327.17 → 36409.61 in 5 years

36409.61 → 38589.06 in 5 years

38589.06 → 40868.51 in 5 years

40868.51 → 43250.04 in 5 years

43250.04 → 45735.84 in 5 years

45735.84 → 48328.11 in 5 years

48328.11 → 51039.04 in 5 years

51039.04 → 53865.81 in 5 years

53865.81 → 56810.71 in 5 years

56810.71 → 59877.04 in 5 years

59877.04 → 63066.11 in 5 years

63066.11 → 66389.34 in 5 years

66389.34 → 69849.11 in 5 years

69849.11 → 73457.84 in 5 years

73457.84 → 77217.91 in 5 years

77217.91 → 81141.84 in 5 years

81141.84 → 85232.11 in 5 years

85232.11 → 89491.34 in 5 years

89491.34 → 93921.91 in 5 years

93921.91 → 98527.34 in 5 years

98527.34 → 103311.11 in 5 years

103311.11 → 108285.91 in 5 years

108285.91 → 113454.34 in 5 years

113454.34 → 118819.11 in 5 years

118819.11 → 124383.91 in 5 years

124383.91 → 130151.34 in 5 years

130151.34 → 136125.11 in 5 years

136125.11 → 142308.91 in 5 years

142308.91 → 148705.34 in 5 years

148705.34 → 155318.11 in 5 years

155318.11 → 162150.91 in 5 years

162150.91 → 169208.34 in 5 years

169208.34 → 176495.11 in 5 years

176495.11 → 184015.91 in 5 years

184015.91 → 191775.34 in 5 years

191775.34 → 199779.11 in 5 years

199779.11 → 208031.91 in 5 years

208031.91 → 216538.34 in 5 years

216538.34 → 225295.11 in 5 years

225295.11 → 234308.91 in 5 years

234308.91 → 243585.34 in 5 years

243585.34 → 253129.11 in 5 years

253129.11 → 262942.91 in 5 years

262942.91 → 272921.34 in 5 years

272921.34 → 283170.11 in 5 years

283170.11 → 293695.91 in 5 years

293695.91 → 304494.34 in 5 years

304494.34 → 315571.11 in 5 years

315571.11 → 326931.91 in 5 years

326931.91 → 338572.34 in 5 years

338572.34 → 350499.11 in 5 years

350499.11 → 362717.91 in 5 years

362717.91 → 375126.34 in 5 years

375126.34 → 387831.11 in 5 years

387831.11 → 400837.91 in 5 years

400837.91 → 414152.34 in 5 years

414152.34 → 427775.11 in 5 years

427775.11 → 441611.91 in 5 years

441611.91 → 455869.34 in 5 years

455869.34 → 470444.11 in 5 years

470444.11 → 485341.91 in 5 years

485341.91 → 499559.34 in 5 years

499559.34 → 514092.11 in 5 years

514092.11 → 528945.91 in 5 years

528945.91 → 544115.34 in 5 years

544115.34 → 559601.11 in 5 years

559601.11 → 575407.91 in 5 years

575407.91 → 591541.34 in 5 years

591541.34 → 607997.11 in 5 years

607997.11 → 624779.91 in 5 years

624779.91 → 641895.34 in 5 years

641895.34 → 659343.11 in 5 years

659343.11 → 677127.91 in 5 years

677127.91 → 695254.34 in 5 years

695254.34 → 713727.11 in 5 years

713727.11 → 732550.91 in 5 years

732550.91 → 751729.34 in 5 years

751729.34 → 771267.11 in 5 years

771267.11 → 791169.91 in 5 years

791169.91 → 811433.34 in 5 years

811433.34 → 831963.11 in 5 years

831963.11 → 852863.91 in 5 years

852863.91 → 874139.34 in 5 years

874139.34 → 895786.11 in 5 years

895786.11 → 917809.91 in 5 years

917809.91 → 940215.34 in 5 years

940215.34 → 962999.11 in 5 years

962999.11 → 986157.91 in 5 years

986157.91 → 1009706.34 in 5 years

1009706.34 → 1033651.11 in 5 years

1033651.11 → 1058007.91 in 5 years

1058007.91 → 1082782.34 in 5 years

1082782.34 → 1107986.11 in 5 years

1107986.11 → 1133424.91 in 5 years

1133424.91 → 1159204.34 in 5 years

1159204.34 → 1185329.11 in 5 years

1185329.11 → 1211805.91 in 5 years

1211805.91 → 1238740.34 in 5 years

1238740.34 → 1266035.11 in 5 years

1266035.11 → 1293695.91 in 5 years

1293695.91 → 1321727.34 in 5 years

1321727.34 → 1350140.11 in 5 years

1350140.11 → 1378929.91 in 5 years

1378929.91 → 1408092.34 in 5 years

1408092.34 → 1437634.11 in 5 years

1437634.11 → 1467559.91 in 5 years

1467559.91 → 1497874.34 in 5 years

1497874.34 → 1528483.11 in 5 years

1528483.11 → 1559390.91 in 5 years

1559390.91 → 1590603.34 in 5 years

1590603.34 → 1622126.11 in 5 years

1622126.11 → 1653964.91 in 5 years

1653964.91 → 1686122.34 in 5 years

1686122.34 → 1718595.11 in 5 years

1718595.11 → 1751387.91 in 5 years

1751387.91 → 1784506.34 in 5 years

1784506.34 → 1817946.11 in 5 years

1817946.11 → 1851812.91 in 5 years

1851812.91 → 1886002.34 in 5 years

1886002.34 → 1920511.11 in 5 years

1920511.11 → 1955345.91 in 5 years

1955345.91 → 1990511.34 in 5 years

1990511.34 → 2026014.11 in 5 years

2026014.11 → 2061960.91 in 5 years

2061960.91 → 2098257.34 in 5 years

2098257.34 → 2134901.11 in 5 years

2134901.11 → 2171889.91 in 5 years

2171889.91 → 2209229.34 in 5 years

2209229.34 → 2246927.11 in 5 years

2246927.11 → 2284979.91 in 5 years

2284979.91 → 2323393.34 in 5 years

2323393.34 → 2362167.11 in 5 years

2362167.11 → 2401296.91 in 5 years

2401296.91 → 2440687.34 in 5 years

2440687.34 → 2480438.11 in 5 years

2480438.11 → 2520555.91 in 5 years

2520555.91 → 2561037.34 in 5 years

2561037.34 → 2601879.11 in 5 years

2601879.11 → 2643087.91 in 5 years

2643087.91 → 2684659.34 in 5 years

2684659.34 → 2726599.11 in 5 years

2726599.11 → 2768893.91 in 5 years

2768893.91 → 2811549.34 in 5 years

2811549.34 → 2854571.11 in 5 years

2854571.11 → 2897964.91 in 5 years

2897964.91 → 2941734.34 in 5 years

2941734.34 → 2985876.11 in 5 years

2985876.11 → 3030395.91 in 5 years

3030395.91 → 3075279.34 in 5 years

3075279.34 → 3120531.11 in 5 years

3120531.11 → 3166155.91 in 5 years

3166155.91 → 3212154.34 in 5 years

3212154.34 → 3258572.11 in 5 years

3258572.11 → 3305399.91 in 5 years

3305399.91 → 3352643.34 in 5 years

3352643.34 → 3400302.11 in 5 years

3400302.11 → 3448271.91 in 5 years

3448271.91 → 3496608.34 in 5 years

3496608.34 → 3545317.11 in 5 years

3545317.11 → 3594395.91 in 5 years

3594395.91 → 3643949.34 in 5 years

3643949.34 → 3693871.11 in 5 years

3693871.11 → 3744167.91 in 5 years

3744167.91 → 3794844.34 in 5 years

3794844.34 → 3845897.11 in 5 years

3845897.11 → 3897321.91 in 5 years

3897321.91 → 3949124.34 in 5 years

3949124.34 → 4001301.11 in 5 years

4001301.11 → 4053857.91 in 5 years

4053857.91 → 4106789.34 in 5 years

4106789.34 → 4160092.11 in 5 years

4160092.11 → 4212771.91 in 5 years

4212771.91 → 4265831.34 in 5 years

4265831.34 → 4319267.11 in 5 years

4319267.11 → 4372084.91 in 5 years

4372084.91 → 4425279.34 in 5 years

4425279.34 → 4478867.11 in 5 years

4478867.11 → 4532833.91 in 5 years

4532833.91 → 4587179.34 in 5 years

4587179.34 → 4641909.11 in 5 years

4641909.11 → 4697019.91 in 5 years

4697019.91 → 4752511.34 in 5 years

4752511.34 → 4808389.11 in 5 years

4808389.11 → 4864647.91 in 5 years

4864647.91 → 4921291.34 in 5 years

4921291.34 → 4978315.11 in 5 years

4978315.11 → 5035713.91 in 5 years

5035713.91 → 5093497.34 in 5 years

5093497.34 → 5151661.11 in 5 years

5151661.11 → 5210209.91 in 5 years

5210209.91 → 5269138.34 in 5 years

5269138.34 → 5328452.11 in 5 years

5328452.11 → 5388155.91 in 5 years

5388155.91 → 5448274.34 in 5 years

5448274.34 → 5508792.11 in 5 years

5508792.11 → 5569714.91 in 5 years

5569714.91 → 5631037.34 in 5 years

5631037.34 → 5692765.11 in 5 years

5692765.11 → 5754899.91 in 5 years

5754899.91 → 5817434.34 in 5 years

5817434.34 → 5880363.11 in 5 years

5880363.11 → 5943691.91 in 5 years

5943691.91 → 6007424.34 in 5 years

6007424.34 → 6071566.11 in 5 years

6071566.11 → 6136111.91 in 5 years

6136111.91 → 6201067.34 in 5 years

6201067.34 → 6266428.11 in 5 years

6266428.11 → 6332198.91 in 5 years

6332198.91 → 6398284.34 in 5 years

6398284.34 → 6464779.11 in 5 years

6464779.11 → 6531687.91 in 5 years

6531687.91 → 6599005.34 in 5 years

6599005.34 → 6666737.11 in 5 years

6666737.11 → 6734877.91 in 5 years

6734877.91 → 6803429.34 in 5 years

6803429.34 → 6872496.11 in 5 years

6872496.11 → 6941972.91 in 5 years

6941972.91 → 7011864.34 in 5 years

7011864.34 → 7082175.11 in 5 years

7082175.11 → 7152900.91 in 5 years

7152900.91 → 7223946.34 in 5 years

7223946.34 → 7295307.11 in 5 years

7295307.11 → 7367077.91 in 5 years

7367077.91 → 7439163.34 in 5 years

7439163.34 → 7511569.11 in 5 years

7511569.11 → 7584290.91 in 5 years

7584290.91 → 7657323.34 in 5 years

7657323.34 → 7730671.11 in 5 years

7730671.11 → 7804329.91 in 5 years

7804329.91 → 7878304.34 in 5 years

7878304.34 → 7952599.11 in 5 years

7952599.11 → 8027209.91 in 5 years

8027209.91 → 8102141.34 in 5 years

8102141.34 → 8177389.11 in 5 years

8177389.11 → 8252947.91 in 5 years

8252947.91 → 8328821.34 in 5 years

8328821.34 → 8404915.11 in 5 years

8404915.11 → 8481323.91 in 5 years

8481323.91 → 8558042.34 in 5 years

8558042.34 → 8635075.11 in 5 years

8635075.11 → 8712426.91 in 5 years

8712426.91 → 8790091.34 in 5 years

8790091.34 → 8868064.11 in 5 years

8868064.11 → 8946349.91 in 5 years

8946349.91 → 9024952.34 in 5 years

9024952.34 → 9103875.11 in 5 years

9103875.11 → 9183112.91 in 5 years

9183112.91 → 9262669.34 in 5 years

9262669.34 → 9342539.11 in 5 years

9342539.11 → 9422726.91 in 5 years

9422726.91 → 9503226.34 in 5 years

9503226.34 → 9584042.11 in 5 years

9584042.11 → 9665169.91 in 5 years

9665169.91 → 9746603.34 in 5 years

9746603.34 → 9828347.11 in 5 years

9828347.11 → 9910395.91 in 5 years

9910395.91 → 9992753.34 in 5 years

9992753.34 → 10075425.11 in 5 years

10075425.11 → 10158314.91 in 5 years

10158314.91 → 10241519.34 in 5 years

10241519.34 → 10325043.11 in 5 years

10325043.11 → 10408880.91 in 5 years

10408880.91 → 10493027.34 in 5 years

10493027.34 → 10577487.11 in 5 years

10577487.11 → 10662254.91 in 5 years

10662254.91 → 10747334.34 in 5 years

10747334.34 → 10832729.11 in 5 years

10832729.11 → 10918443.91 in 5 years

10918443.91 → 11004472.34 in 5 years

11004472.34 → 11090819.11 in 5 years

11090819.11 → 11177487.91 in 5 years

11177487.91 → 11264473.34 in 5 years

11264473.34 → 11351779.11 in 5 years

11351779.11 → 11439389.91 in 5 years

11439389.91 → 11527319.34 in 5 years

11527319.34 → 11615572.11 in 5 years

11615572.11 → 11704141.91 in 5 years

11704141.91 → 11793022.34 in 5 years

11793022.34 → 11882217.11 in 5 years

11882217.11 → 11971730.91 in 5 years

11971730.91 → 12061557.34 in 5 years

12061557.34 → 12151699.11 in 5 years

12151699.11 → 12242159.91 in 5 years

12242159.91 → 12332942.34 in 5 years

12332942.34 → 12423949.11 in 5 years

12423949.11 → 12515184.91 in 5 years

12515184.91 → 12606651.34 in 5 years

12606651.34 → 12698352.11 in 5 years

12698352.11 → 12790289.91 in 5 years

12790289.91 → 12882467.34 in 5 years

12882467.34 → 12974887.11 in 5 years

12974887.11 → 13067551.91 in 5 years

13067551.91 → 13160464.34 in 5 years

13160464.34 → 13253627.11 in 5 years

13253627.11 → 13347043.91 in 5 years

13347043.91 → 13440717.34 in 5 years

13440717.34 → 13534650.11 in 5 years

13534650.11 → 13628845.91 in 5 years

13628845.91 → 13723297.34 in 5 years

13723297.34 → 13818007.11 in 5 years

13818007.11 → 13912977.91 in 5 years

13912977.91 → 14008212.34 in 5 years

14008212.34 → 14103714.11 in 5 years

14103714.11 → 14199485.91 in 5 years

14199485.91 → 14295529.34 in 5 years

14295529.34 → 14391847.11 in 5 years

14391847.11 → 14488432.91 in 5 years

14488432.91 → 14585289.34 in 5 years

14585289.34 → 14682419.11 in 5 years

14682419.11 → 14779826.91 in 5 years

14779826.91 → 14877514.34 in 5 years

14877514.34 → 14975484.11 in 5 years

14975484.11 → 15073729.91 in 5 years

15073729.91 → 15172254.34 in 5 years

15172254.34 → 15271059.11 in 5 years

15271059.11 → 15370147.91 in 5 years

15370147.91 → 15469523.34 in 5 years

15469523.34 → 15569188.11 in 5 years

15569188.11 → 15669144.91 in 5 years

15669144.91 → 15769395.34 in 5 years

15769395.34 → 15870942.11 in 5 years

15870942.11 → 15972787.91 in 5 years

15972787.91 → 16074934.34 in 5 years

16074934.34 → 16177384.11 in 5 years

161773

831 A person willing to distribute some money among a number of beggars wanted 2 pence to give them 3 a piece he therefore gave each 2^d and had 3 left how many beggars were there

Suppose 10 10 14
 20 20 42
 30 30 54
 40 40 68
 50 50 82
 60 60 96
 70 70 110
 80 80 124
 90 90 138
 100 100 152
 110 110 166
 120 120 180
 130 130 194
 140 140 208
 150 150 222
 160 160 236
 170 170 250
 180 180 264
 190 190 278
 200 200 292
 210 210 306
 220 220 320
 230 230 334
 240 240 348
 250 250 362
 260 260 376
 270 270 390
 280 280 404
 290 290 418
 300 300 432
 310 310 446
 320 320 460
 330 330 474
 340 340 488
 350 350 502
 360 360 516
 370 370 530
 380 380 544
 390 390 558
 400 400 572
 410 410 586
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