Letter from Newton to John Collins, dated 17 November 1674

Author: Isaac Newton
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<38r>

Novemb 17th 1674. Cambridge.

Sir

Hearing that Mr Kersies book is out of Press, I desire you would send me the Fourth part. I have ordered John Stiles to satisfy you for it. Mr Dary is very sollicitous about Mathematiques. The rules which I lately sent him for resolving æquations by Logarithms to be communicated to you, he applys to quadratic equations: whereas they are only to be applied to æquations which have many intermediate terms wanting, four or five at least. And the more intermediate terms are wanting, the sooner they approach to truth. He is desirous of the best way of determining Logarithms by the Hyperbola & the solution of another Probleme of the same kind, but I have nothing valuable to communicate therein which you are not already acquainted with. So with my thanks to you for all your kindnesses I rest

Your obliged &
humble Servant

Is. Newton

<38v>

As 36500 Is to 10 times the Number of Dayes so is any Principall to the Interest

30
31
30
8

1	3650
2	7300
3	10950
4	14600
5	18250
6	21900
7	25500
8	29200
9	32850

21
28
31
10
90

198000
18250
15500
14600
9000
7300
17000
14600
24000

54|246

53,414
40
21
22 2136,560
1825,0

311 56
292 00
19 560

,584

350
31
35
105

10850
7300
35500
32850
26500
24500
20000

2,975

23

54,246
33
162738
162738
1790118
14660
33011
32850
1610

490

460
43
1380
184
19780
18250
15300
14600
7000
3650
33500
32850
6500

5|191

16
24
4875
4
195000
18250
12500
10950
15500
14600
9000
7300
17000

53|414

53,414
15
267070
53414
801210
7300
17121
14600
25210

|247

21
31
31
22
105

9
30
31
26
96

16,602
90
1494180
14600
34180

,409

83,795
105
418 975
8379 5
8798,475
7300
1498 4
1460 0
38 40
36 50
19 00

2,410

81,014
96
486 084
7291 26
7777,344
7300
477 3
365 0
11 230
10 950
2800

2|130

<39r>

54 :	4 :	$11\frac{1}{2}$		125 : 0 : 0
	9	10	33 dayes	
53 :	8 :	$3\frac{1}{2}$		
	4	$11\frac{1}{2}$	15 Dayes	
108 :	07 :	$11\frac{1}{2}$		
16 :	12 :	$0\frac{1}{2}$		

		Jan 10	Over	16: 12: $0\frac{1}{2}$
	Carried downe	83 : 15 : 11	Interest to the 10 of Ap^{ll} being 90 dayes	0: 8: $2\frac{1}{2}$
			By Cash then p^{d}	66: 15: 8
				83: 15: 11

			Brought downe	83: 15: 11
	Aug 22	5 : 3 : 10	Interest thereof to 22 Aug being 105 dayes	0: 2: $2\frac{1}{2}$
		81 : 0 $3\frac{1}{2}$		
				86: 4: $1\frac{1}{2}$

			Brought downe	81: 0: $3\frac{1}{2}$
			Cash then paid	64: 14: 1
			Interest the to 26 Nov^{r} being 96 dayes	22: 4: $10\frac{1}{2}$
	Carried downe	880 : 14 : $5\frac{1}{2}$		867: 19: 3
			By Cash p^{d} 26 Nov	12: 15: $2\frac{1}{2}$
				880: 14: $5\frac{1}{2}$
		99 : 4 : $8\frac{3}{4}$	Interest to 18 May 1667 being 173 dayes	41: 15: 6
Interest from 5 feb to 18 May being 102 dayes			May 18 Paid	350: 0: 0
				1272: 9: $11\frac{1}{2}$

<39v>

These

For M^{r} John Collins at the Farthing Office in Fenchurch Street in

London.

send by Stiles at the green dragon in bishope gate on thursday