

which she did in the following manner :— She found the Cross contained in length from A to B, 9 Diamonds. Reckoning from B to C, or from B to D, she counted 2 to 9.—When the Cross was returned, counting them in the found the number precise ; notwithstanding diamonds had been pur- was this managed ?

ND NO FEELING. troops were in Lisbon, it into the shop of a e his hair cut ; at the a mendicant friar en- usual request, " to be love of God." Ton- at all times preferred paternoster, durst not immediately began to operation by lathering bristles on the chin of with cold water and and then to reap the with a notched and The torture the poor was strongly depicted ance, but still the un- moved on. At this in- screaming was heard, om an unfortunate kiten seized and almost yalarge dog—" What yell ?" exclaimed the er ; " Nothing, son," ting friar, " but some g for the love of God ; suffering animal out of en finish me !" This oduced the desired ef- ent priest was shaved on, and the repentant a tear as he received

#### ARITHMETICAL QUESTION.

*A Mill there was, in ancient times,  
That caused the wonder of mankind ;  
The Mill-Stone made of virgin gold,  
Was bright and beauteous to behold,  
The radius of the same, I am told,  
Was just three feet, nor less, nor more,  
The Mill-Stone's thickness, was twelve  
inches,  
Diameter of the eye, likewise twelve  
inches.  
The question is what was the weight  
Of this same Mill-Stone, fair and bright  
And what the value in sterling guineas,  
If coined, with the standard alloy ?*

#### EQUATION OF TIME.

—o—

It is only a few days in the year that a regular clock or watch agrees with the Sun in shewing true time.

Clocks and watches are constructed so as to divide time equal ;— whereas the Sun, by reason of the obliquity of the ecliptic and her unequal motion in different parts there- of divides time unequal—hence the difference called Equation of Time. The following Table will show how many minutes should be added to, or subtracted from any hour shewn by a Sun-Dial, in order to regulate a watch to mean time.

##### Examples.

Required to regulate a Watch to mean or equal time, on 21st Feb.

Look for Feb. 21, and opposite to it you will find 14 minutes to be added to Solar in order to find the mean time, therefore when the Dial shows any hour, set your watch 14 minutes faster.

Required to regulate a Watch on the 3d October, to equal time ?

Look for October 3, and opposite to it, you will find 11 minutes to be subtracted from Solar in order to find mean time ; therefore set your Watch 11 minutes slower than any hour shewn you by the Dial.

#### A TABLE

Of the Equation of Time, calculated to the nearest minute for every day in the year.

Jan.	1	add	4	Aug.	1	add	6
	8		5		8		5
	5		6		15		4
	7		7		20		3
	10		8		24		2
	12		9		28		1
	15	10		Sept.	1	⊙ cl.	6
	18	11			4	sub.	1
	21	12			6		2
	25	13			9		3
	30	14			12		4
Feb.	1	11			15		5
	10	15			18		6
	21	14			21		7
	25	13			24		8
Mar.	4	12			27		9
	8	11			30		10
	12	10		Oct.	3		11
	15	9			6		12
	18	8			9		13
	22	7			13		14
	25	6			18		15
	28	5			24		16
	31	4		Nov.	1		16
April	1	4			14		15
	4	3			20		14
	7	2			23		13
	11	1			27		12
	15	⊙ cl.	6		30		11
	19	sub.	1	Dec.	2		10
	23	2			5		9
	28	3			7		8
May	1	3			10		7
	7	4			12		6
	27	3			14		5
June	1	3			16		4
	4	2			18		3
	10	1			20		2
	15	⊙ cl.	6		22		1
	20	add	1		24	⊙ cl.	6
	24	2			26	add	1
	28	3			28		2
July	1	3			31		3
	3	4					
	10	5					
	16	6					