475 DESERET NEWS. August 25 Thus we see, that if the moon were taken Tourgee, of Boston, delivered a fine Department, necessitate a total inpound weight, attached to a string one foot long, would generate a centrifugal force equal to its weight, if it be made to revolve once round in 1.111379965 seconds. address on music in the Sunday crease of the bonded debt of about and to its weight, if it be made to revolve once sound in Lilling seconds.
The seconds which is second is the revolve around the second which is second is the revolve around the second which is second is the revolve around the second which is second whis second which is second which is second which is second whi school and sanctuary. The general \$350,000,000. Should this estimate Can be found a Large Variety of was probably fatally injured yester- it, and notes and letters were disa velocity sufficient to generate a centrifugal force upwards, equal to that of its gravita-tion downwards. Under the influence of these two opposing forces, it is constantly maintained at its orbit distance. covered which prove unmistak-Stock which we desire to reduce day. While driving in his phaeably his identity. ton near his residence, at Coscob, this season, to accomplish which For, the exact mathematical adjustments of PORT CHESTER, N.Y., 17.-Edhis horse became frightened and If the intensity of gravitation were the same at all distances, the moon would fall towards the earth, from the tangent to the curve of its orbit, 16 feet and 1 nch, in one second of time. To balance this downward tendency, its velocity around the earth would have to be increased 59.96435 times we shall sell cheap, all the best win Booth's injuries consist of ran away; the phaeton was defractures of the left elbow bone and molished and Mr. Booth was styles of of one rib. He is quite comfortathrown to the ground with great ble, and will be as good as new in a violence, receiving internal injur Mowers, Reapers, ies. Information of the sad acei- few weeks. greater than its present mean velocity; formed and governs the mighty fabric. dent was telegraphed by his wife INDEPENDENCE, Ks., 17.-Infor-

that is, the moon would have to revolve	the second se	to her father. Mr. McVicker, of	mation from Coffeyville is to the	Combined Machines,
around the earth in 10 hours, 56 minutes and 6.58275 seconds. This is calculated by		Chicago. Mrs. Booth, mother of	effect that the commissioners an-	Concinentation Date Chinich,
taking the square root of the moon's dis-	I see 18370 see 1119 3 second s 1 1/W I	Edwin, and his brother Joseph were	pointed to investigate the charges	
tance, which we have already stated to be		summoned from Long Branch	against Indian agent Gibson will	CHERAY STREAM DIME MUA HAAAG
59.96135 times the earth's radius. The	Ly i cicgiapii.	Coscob is the point at which Charles	arrive at the Orage mission and	SULKY & REVOLVING HAY RAKES.
square root of 59.96435 is equal to 7.743665;	all soldiers had over huster nothing ins	V Demos the point at which Charles	commonce their labors to day The	
this multiplie, into 5083.7146 seconds, gives a product of 39366.58275 seconds, which is	A REFINE ARE IN A REFINE VIS	M. Barras, the author of the Black	commence then labors to-day. The	FREIGHT.
equal to 10 hours, 56 minutes, and 6.58275		Crook, was killed several years	chief of the Osage Indians makes a	Alamin 201 Alai Ratel Aviter
seconds.	NEW VORK 16 The following	ago	number of charges against Gibson,	DIDH IND TIGHT WILLOUNG
One pound of centrifugal force generated	1 1 1 1 1 1 1 1 00	A Washington special says that	the most important of which are	PARTE AND A REPAIR OF AN ARTING
at the distance of the moon, by the whirl-	entry was made in the clerk's office	the celebrated and important case	making false vouchers for salaries	made with the Indiana. The
velocity, greater than when whirled near	for the common pleas court to-day:	lately decided by the Court of	paid his employes, and false	Gang Plows, ow enote
the surface of the earth. The exact ve-	"In the letter of assignment, dated		vouchers in regard to the amount	ers departs, Greuf excitomentes
locity necessary, will be found by taking	27th of July, 1879, by Wm. Butler	fic Railroad Company has been		aboat maseed Drills, ile boa
the square root of the moon's distance, or	I I I I I I I I I I I I I I I I I I I			discreted have been staked
body at the earth's surface. Then we	LONG L'HONOTO M L'HONOTO FO- MUNA	to the Supreme Court of the U.S.	inducation and some stand and and	hew dengun Scrapers, has
shall have the numerical formula, thus-	Sherman, Aug. 16, 1875, received a	It is now said that the total as-	Compohedre in hiding in the second	atheight down students and
9	schedule of debts and inventory of			Railroad Plows,
(7.743665) = 1 pound.	anatat dahta and lightilition \$1 010	sets of the firm of Duncan, Sher-	near Nashua, N. H., and shooting	
Deterritor	100: the consta nominally amount	man & Co., including their person-	at boys who venture near.	Garden Drills,
moon's real velocity around the earth is not	to \$2,119,468, but actually to \$2,- 830,853.	al property will be not less than	A person looking at some skel-	P wollab De wol dolars in oug
7.743665 times swifter than a revolving body at the surface of the earth ; indeed, it is	830.853 to distant billing entering of	5900,000 or \$1,000,000, while their	etons asked a young doctor present	sention of gal School Bells,
HE SHE SHE OF THE STREET AND THE AD	TTT - THE ALL AND ALL TO TTT TO THE	total indebtedness gloes not exceed	where he got them. He replied,	un sousnudos ciondina sa
known to have a mean velocity 7.743665 times slower than that of a body at the	tagh, edi or and proprietor of the	D020,000 mer that ty b staff is all	GW a resigned throws 12	WATCHN THEFTORD AND DEDATOR
earth's surface, or 59 96435 times slower	Mational Donablican buselt	At the unveiling of the Hermann	the militia enxy with fear it	WAGUN TIMBER AND REPAIRS
than the velocity necessary to generate 1	National Republican, brought a	Statue, at Detwold, yesterday,	LOOD ALIONA DOOL	A-21, MINOT AUTOITANT
pound of centrifugal force.	I WITTE MERCIPHICI. LITER I FIGURE I CONTRACTOR			Machine Extras,
sions or strains upon cords, or rather the	sioner to-day, to recover forty-seven	short address, in which he said	"Please, sir," said a boy, with	MILO DIAL DI TIINIDIA ITAN AMPRIS
centrifugal forces, generated by the revo-	renousand upitates the amount	that it was one of the most affect.	two bottles, to a grocer, "mother	Horse Collars,
ution of balls or globes, when the di-tan-	claimed by min as remaining due	ing festivals he had ever witnessed	wante sa cente sworth or your best	I-AI II MI MOZACIYOA'I
ces are the same, are as the squares of the	for the advertising of the tax sales	and he rejoiced in this movement	yeast." "Well, which bottle will	begist Cider Mills.
velocit es. But the real velocity of the	LOOT LIND A TITLEY PRODUCE NO LINE	inquarting a new are of hannily	you have it in?" "Please, sir, she	olam bake at General Barne
moon is only, the 59.96435th part of that		united Germany; and if all the	wants it in both; and won't you put	theseng ete Marness., geilt
velocity necessary, if gravitation remained	1 Somers of account.	mould mould do their date tomand	corks in 'em, and send 'em home,	in annothed encert steams weathered
the same in intensity at all distances. There-	The Evening Star says of the	the beloved fatherland it would re-	as I'm going t'other way; and mo-	Fan Mills.
fore, the square of 59.96435 which is equal	marine frauds, that by some means	che beloved latherland it would le-	ther says she hain't got no cent,	President and party embarice
		main so to to to to to to the state of the s	but you must charge it."	the entire I & Grand and an
3595.72327,	ed the clothing in New York, as-	Unanticatory 11111010 was all	JEHL EVER . EL STORNILVY HONES	athundary have been be
trifugal force, at the mean distance of the	certained that the amounts of the	exciting time last evening in	And the second	WE ARE ALSO AGENTS FOR
moon. But the gravitating force towards the earth, must be equal to the centrifugal	bills which they made out in blank	Columbia, caused by proceedings		William has based in the
force from the earth; and there fore, th	were not filled up by Captain Mad-	under moveds corpus for the release	ace walls going from one car to ano	Whitman's Threshing Machines,
gravitating force must vary inversely as	dox, the inspecting officer in Phil-	or ex-ricasurer raiker. The ap-	THE CONTRACT TO STATE	all sizes. Wheeler's Railway and
the square of the distance; that is, it must	adalahin and some time the	plication was heard at five p.m.,	Fruit lans! Fruit lans!	Succes Porney Machines all

be about 3,030 times less at the moon's distance, than at the surface of the earth. Hence, the moon falls towards the earth about 3,596 times slower than a stone would made a bill out, which would cover fall near the earth's surface.

We have proved that if gravitation was the same at all distances, the moon must necessarily go ouce around the earth in 10 hours, 56 minutes, 6.58275 seconds, in order Maddox at Philadelphia, who apto balance the central force. But as gravitation is greatly diminished by distance, the period must be greatly increased; that is, 19 hours, 56 minutes, and 6.58275 seconds, or rather 39,366.58275 seconds must be multi- events he gave a certificate of inspecplied by 59.96435, which is the number of times the velocity is decreased; the product will be 2,360,591,5465152 seconds in the moon's real period: this is equal to 27.321661418 mean solar days, which is the exact period as given in Herschel's Tables, in his "Outlines of Astronomy.

14. It is a wonderful achievement in science to be able to demonstrate the law of gravity, from the simple experiment of whirling a weight, attached to a cord of given length, around a pivot as a centre, and observing the centrifugal force generated in any given time. Who could have supposed that the whirling of a ball in a small circle of one foot radius, was a phenomenon of precisely the same nature, as the revolution of magnificent worlds, in their grand orbits? and that the laws which apply to the one class of motions, apply equally certain to the other? The problem may be generalized thus-

Given the time of the revolution of a weight, having a foot radius, in generating a centrifugal force equal to its weight, to discover the universal law of gravitation.

The method of solution has been fully developed in this lecture. And its truth may be verified in the most minute particulars, strongly favoring a ten hour law. by its application to the grand machinery of the solar system. We will now give two examples.

EXAMPLE 1.-Let the distance of the moon be called unity, then the distance of the "Preparations for the retirement of view. sun on the same scale will be = 382.8839 SASH & DOORS, DETROIT, 16.-The saw mill of the fractional currency outstanding, Harrow Teeth, Efc. and the velocity of the moon around the sun will be 28.67 times its velocity around the Saylor & Co., near East Saginaw, and the substitution of silver thereearth, what will be the centrifugal force generated by the revolution of the moon was destroyed by fire to-day; loss for, are being pushed forward by 27.21.21 -0150 \$35,000. the Treasury Department. To the around the sun? We have Everything in the Building Line. A collision occurred on the Flint accomplishment of this end over (GENERAL AGRICULTURAL IMPLEMENTS.) $v = (28.67)^{-1}$ and Pere Marquette R. R., near \$10,000,000 of five per cent. bonds ALL KINDS OF = 2.147Flint this a.m., by which Thomas have already been sold in the pur-Hurd, conductor, and John Hendey chase of silver bullion, and it will Hence the centrifugal force which the Now is the Chance, moon generates in revolving around the were killed, and four train men require the disposition of \$10,000,sun, in company with its primary, is 2.147 times greater than that generated by her 000 more before a sufficient awere badly injured. as this Department will - A SPECIALTY .-FAIRPOINT, N. Y., 16.-This has mount of silver will have been revolution around the earth. be condensed and Moved We will Not be Undersold. EXAMPLE 2 -- If the earth and sun were been the last day of the Chatauqua accumulated to commence replaced at equal distances from the moon, as soon as Possible. Sunday School Assembly, and peo- sumption, thus adding \$20,000,000 ple have been leaving in boats and to the interest - bearing debt. SOUTH TEMPLE STREET. what would be the intensity of the gravitation of the latter towards the sun? eaw rebio oull .ien Gravitation increases as the square of trains all day. Addresses were To carry out the provisions of AF Half Block East of Depot. H. B. CLAWSON, the distance decreases; therefore we have made this a.m. by President Lewis the so-called specie - resumption 8 111111 - 13610109 Miller, Dr. Vincent, and others; bill, passed last January, which SUP'T. $d^2 \times 2.147$; or $(382.8839) \times 2.147 =$ Salt Lake City, 1875. 146,600.08 × 2.147=314,760 and in the evening Prof. Eber will, it is estimated at the Treasury

adelphia, and some time ago they reso ved on a bold move. They twenty-three thousand dollars for clothing, which they had not manufactured. It was sent to Captain proved it. It is said that his approval was secured through the collusion of one of his clerks; at all tion covering enough garments to meet the aggregate of the list, and also approved it and sent it on to Washington to General Zelin, who likewise approved it, and Major Slack paid the bill.

TORONTO, 16.-The steamer Roth say Castte, well known as a successful blockade runner during the war for the Union, on entering Toronto harbor this p.m., with 300 excursionists on board, struck a sunken snag, and rapidly sank to the upper decks; the passengers were taken off by tugs and landed safely. A dalar heterno

PROVIDENCE, R. I., 16. -- The New England ten-heur demonstration to-day, was attended by 1,500 operatives from Fall River and other points in Mass. Addresses were made and resolutions adopted and pledging the operatives to the agitation of the subject until legislation is procured favorable to their

counsel claiming hi- discharge under the provision of the Constitution prohibiting imprisonment for debt. The sheriff's return failed to allege that the case was one of excepted by the constitutional prohibition of imprisonment for debt, and after argument the Judge released the prisoner. The court crowd. Parker was immediately rearrested on a criminal warrant for grand larceny, but his counsel waived an examination, urging that the amount involved in the alleged robbery had nothing to do with the amount of bail, and he succeeded in getting him released on two thousand dollars. The News and Courier denounced the release as a gross judicial outrage and a job put up by certain State officials. such and add to day CHICAGO, 17. - The Rockford Rock Island and St. Louis railroad was sold under the hammer in this city yesterday, and brought one million, three hundred and twenty thousand dollars. The Union Trust Company of New York held a claim against the corporation for over a million; the German bondholders were the purchasers.

A Washington special says-

