Editor's Notice: Problems, games, and checker news welcomed at all

These should be sent to R. R. Rutledge, Williston, N. D.

In numbering your board, let the squares of the double corner on the black side, be 1 and 5, and the squares of the double on the white side, 32

Then the black pieces will occupy the squares 1 to 12 inclusive and the white pieces 21 to 32 inclusive. Printuse white squares players in black squares. Black always moves first when beginning a game.

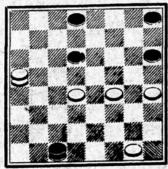
Number your board and try the

games and problems. Solution to Problem No. 41. Black 3, 12. King 27, 30. White 20, 24, 28. King 19.

30.26 19.15 9. 6 15.19 2. 9 19.15 17.14 15.19(b) 7.10 28.24 6. 2 19.16 9. 6 26.22 15.19 15.19(a)14. 9 19.15 14.19 24.19 3. 7 24. 6 22.17 19.15 B. Wins.

(a). 24.19, 27.24, 15.18, 22.15, 9.10, 24.19, 10.6, 19.15, 6.2, 3.8, 2.6, 8.11, 6.9, 15.10, 9.5, 12.16. B. Wins. (b). If 15.18 then 12.16 wins at once and if 15.11 play 12.16, 11.15, 6.2, 20.11, 27.20, 15.19, 2.6. B. wins. Problem No. 42.

By J. L. Richmond, England. Black 2, 4, 10, 12. King 30.

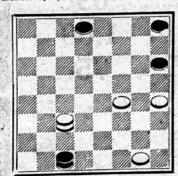


White 18, 19, 20, 32. King 13. White to move and win.

This neat little problem by Mr Richmond was published in the September Checker World. The Graphic checker editor studied this position or some time and finally solved it, but not until the arrival of the November Checker World did he know that his solution was altogether different than that of the author. Mr. Richmond plays 20.16 and wins along that line of play, while the Graphic checker editor takes the 18.14, 10.17 exchange for his route.

Owing to the fact that the two lines are so different the latter will be diagramed after the exchange as Problem No. 43.

Black 2, 4, 12. King 30.



White 19, 20, 32. King 22. Black to move, white to win. Game No. 20.

This interesting game was played recently between two of the experts

OI AN II	HELUH.			
11.15	14.18(b)19.28	10.14	19.23
22.17	23.14	30.25	17.10	9. 6
8.11	9.18	22.26	7.14	23.27
25.22	26.23	31.22	13. 9	32.23
9.14	18.22	6. 9	14.17	18.27
	a)23.18	13. 6	22.13	20.16
6. 9	15.19	2.18	5.14	12.19
17.13	°18.14	17.13	13. 9	24.15
1. 6	11.15	4. 8	15.19	8.11
22.17	The state of the s	c)21.17	27.24	f _{Bal}
B. V				

(a) 17.13 is usually played at this

stage (b) 15.19 which at first sight looks good, allows a pretty white stroke. (c) Doesn't seem to do the work.-Ed.

County School Notes. The North Dakota Educational Association has its annual meeting this year at Minot. This is the first time in the history of the state that this gathering has met in this section. It has usually met at Fargo and Grand Forks except last year when it met at Valley City. All teachers, patrons, school boards, and the general public who are interested in the schools should make it a point to attend if possible. The dates of the meeting are Dec. 28, 29, 30 and 31. Below is a program of the Department of Elementary Education. This department will be of the greatest interest and benefit to the great majority of the teachers of the county. The complete program of all the departments will

Department of Elementary Educa-

be published as soon as received.

Wednesday, Dec. 29, a. m. ((All themes in this program will be treated in inspirational talks of

Checker Column Irrigation Tests at Experiment Station, Williston, N. D.

The station irrigated about 70 ing, some interesting data was obof water used, as given by U. S. properly handled. Six plats of alfalfa water is unusually small, but the ground leveled within. The alfalfa crops were given all the water that was sown during the spring of 1909. small amount of irrigation water. The note what effect the different amounts experiments were planned and the of water would have upon the alfalfa. crops were sown by Supt. Scholland- Each set of plats were irrigated with er, but the application of the water a similar amount of water on July 29, was left to the discretion of Mr. A. M. Aug. 2, Aug. 16, and Sept. 14. It is Hawley, appointed by the U. S. gov- expected that the season of 1910 will ernment for that purpose. Altho the give results. The yields per acre of contest between the irrigated and the grain and potatoes are given benon-irrigated yields was not astonish- low in a tabulated form:

acres of land this season. This land tained. Two varieties of sugar beets consisted of meadow, wheat, oats, po- were grown, both did remarkably well tatoes, alfalfa, brome grass, sugar and it surely is an indication that beets and garden. The total amount they can be grown successfully if reclamation service, was approximate- were prepared, by throwing up levees ly 45 acre feet. This quantity of on all sides of the plats and the they could use. The abundance of Two plats each were irrigated respecrain was the sole factor in using such tively with 24.6 inches of water, to

31192				
	Irrigated	and Non-Irriga	ed Potatoes 1909	
Plat	Variety	Dates	Total Number	Yield per
		Irrigated'	of bushels	acre
1	Mixed	7-30 8-11 8-25	217.6	191.9
2	Early White Ohio	7-30 8-11 8-25	286.9	138.3
3	Early White Ohio		48.8	127.1
4	Mixed	7-17 7-28 8-10	71.9	196.5
5	Mixed	non-iggigated	47.1	143.2
Yie	ld per acre of all irr	igated		175.5
	ld per acre of all nor			
	Indicated .	and Non Instant	od Wheet 1000	

		ed and Non-Irrigated ground that had when		008.	
Plat	Variety	Dates W	eight per bu.	Yield per ac	
1 2	Fife wheat Minn. No. 163	6-19 6-26 7-3 7-10 7-17 7-24 7-31 6-19 7-3 7-17 7-31	59 lbs. 58 ‡ ''	26.3 bu.	
3	"	7-3 7-10 7-17 7-24 7-	31 60} "	23.6 "	
4	- 66	7-3 7-24 7-31	601 "	23.5 "	
5	"	7-10 7-24	601 "	24,0 **	
6		7-10 7-17 7-24 7-31	591 "	24.0 "	
7	"	7-17 7-31	60 "	24.8 "	
8	"	Non-Irrigated	561 ."	22.6 "	
	Irrig	sted and Non-Irrigate	ed Wheat.		

		rigated and Nor gated Ground th			908.
Plat			Wt. per bu.		Y'ld Grai
1 2	Fife Minn., No.	163 7-13 7-24 Non-Irrigated	60 bu. 58 ''	2636.2 lbs 2621.8 lbs	30.64 bu. 30.27 "
N	Irrigat	ed and Non-Irri	gated Winter	Varities.	100

	Ground	Irrigated fall	of 1908	3.		
Plat	Variety	Dates Irrigated	Weight	per bu.	Yield	i per acre
1	Early Amber winter rye	8-11 08	581	lbs.	3	3.9 bu.
2		Non-Irrigate	d 584		3	6.5 "
3 N	. D. Exp. Sta. winter ry	e 8-11	581	66	3	4.0 "
4		Non-Irrigate	d 584	44	3	3.8 "
5	Grafton winter wheat	8-11	624	44	30	3.8 "
6	4	Non-Irrigate	d 60	"	19	9.9 "
	D. Exp. Sta. winter whe	at 8-11	624	••	53	3.7 "
8		Non-Irrigate	d 594	**	2	6.6 "
9	Beloglina winter wheat	8-11	62	"	3	9.2 "
10	" " "	Non-Irrigate	ed 61	"	4	0.0 "

twenty minutes by the leader, and with opportunity for question and discussion by the audience).

- 1. Time and Subject matter in arith-
- a. Value of Arithmetic. b. Training for Accuracy.
- c. Fundamental Operations. ed Matter.
- Supt. P. S. Berg. 2. Illustrative Presentation of Hand
- work in the Grades. a. How to conduct seat and con-
- struction work. b. Work for lower grades. Eula J. Miller.
- 3. Teaching Geography not all Text Book Work.
- a. Our latter day conception of geography. Vocational vs. locative geog
- raphy. Comprehensiveness of the
- geography subject. Selective sectional study. Supt. C. C. Gray.
- 4. Teaching of agriculture in rural and village schoots. What?
- Prof. G. W. Randlett. 5. Five problems of the teacher in teaching.
- a. The school and community. b. A live school. Supt. B. A. Wallace.
- Thursday, Dec. 30, a. m. 1. Time and subject matter in arith metic.
- a. Shop method in subtraction. Decimals.
- c. The metric system.
- d. Checking results. e. Estimating results.
- Supt. P. S. Berg. Illustrative presentation of hand work in the grades.
- Weaving.
- b. Materials. c. Value.
- Eula J. Miller.
- Teaching of geography not all text book work.
- a. The inadequacy of text book geography.
- Forms of geography text books 2. Terseness of discussion. 3. The element of home interest.
- map. 5. The teacher and the larger
- views. Supt. C. C. Gray. Teaching of agriculture in the and having this number to record, we rural and villags schools. What?

- a. Soil moisture demonstration. Prof. G. W. Randlett. 5. Five problems of the teacher in teaching.
- a. The recitation. b. Questioning.
- Supt. B. A. Wallace.
- December 31, a. m. d. Grouping and Treating of Relat- 1. Time and subject matter in arithmetic.
 - a. Oral arithmetic.
 - b. Simplification in arithmetic.
 - c. The text book. d. The teacher.
 - Supt. P. S. Berg. 2. Illustrative presentation of hand
 - work in the grades. a. Application of design in school
 - Eula J. Miller. Teaching of geography not all
 - text book work. Some supplementary aids
 - live geography. 1. The descriptive reader. 2. Pictures, guide books, models.
 - 3. Industrial exhibits and sam-Supt. C. C. Gray.
 - Teaching of agriculture in rural and village schools. What? The Babcock milk test-demonstration.
 - Prof. G. W. Randlett. Five problems of the teacher in teaching.
 - Teaching pupils now to study. Supt. B. A. Wallace. Martha P. Tatem, Superintendent.

On Tuesday of this week our attention was called to the work that had been done by the office of the Register of Deeds in this county and we find that during the time since January first of this year that there has been recorded 13,100 instruments and that prior to that time there was but 30,328. Making nearly half the instruments that are of record in this county placed on the record books during this year. In the chattel record we find that there has been 11,-014 instruments placed for filing during the present year and that this number is more than one-third of the 4. The use and limitation of the number that has been placed for record during the existence of the county. When we know that at the time Register of Deeds Higley took hold of the office the work was way behind see that he is doing good work.

Choose Your Christmas Gift from the Realm of Usefulness

The Christmas gift is intended to give pleasure.

It also should serve as a remembrance of the giver. Then let your gift be a useful one--no other can bring so much joy.

It's the gift that satisfies--It's the gift that is appreciated. The oftener it may be used the better. That's what makes appreciation.

Select From These

Silverware

The famous 1847 Rogers Bros., ware. One of the highest grades of silver ware. Knives and Forks at \$6.00 a set. Also table, desert, and tea spoons.

We can give you a "hollow handle" set in "Community Silver" the best plated ware you can buy. It's more than "tripple plus."

Butter knives, fruit knives, berry spoons, salad forks, and soup ladles.

Carving Sets

Beef and bird carvers put up in

Stag horn handles, pearl handles, ivory handles, sterling silver mounted, highest grade steel blade and Lee cut steels.

Prices from 2.50 to \$6.75

Cut Glass

In cut glass we have some pretty creamers and sugars, wine sets, Sherberts vinegar cruets, finger bowls, berry bowls, beautiful bell shaped water glasses, etc.

Asbestos Sad Irons

A hot Iron--- A cold Handle. That's what you get in an "asbestos." An asbestos lined cap covers the sides and top of the iron and prevents all possibility of burning. No heat can escape through this cap and the iron will remain hot twice as long as other irons. We have them put up in boxes---Laundry sets, family sets and tourists sets.

Sewing Machines

An elegant and handsome machine. Oval ends and swell front. Ball bearing stand: All working parts of the best tool steel.

Gives you satisfaction like any \$45.00 or \$50.00 machine and costs only 25.00 and \$30.00

Nickel Plated Coffee and Tea Pots

Beautiful nickel plated coffee and tea pots. Heavy nickled over aluminum. Heat through readily and always look neat, and last many years. A very beautiful Christmas present.

Hand Painted China Fancy Scissors and Scissors in Sets Sugars and Creamers and Silver Sets Souvenir Spoon Sets Vases of all Kinds Beautiful Pearl Handled Pocket Knives Set of tools for the Boy Bob Sleds and "Sleds that Slide" Barney & Berry Skates---Best Skates Made

Rawson Hwd. Co.