



NUMBER RELATIONSHIPS AND DISTANCE FROM ZERO

Name: *Multiple Cover Up*

Type: *Game*

About the Game: *Multiple Cover Up* is an opportunity for students to practice recalling multiples. Players strategically choose multiples to cover on the game board with the goal of making as many “three-in-a-rows” as possible before all cards are used. The game board includes prime numbers (which are marked as “free” spaces). An alternate version of the game board is provided that does not mark the prime numbers. In that version, students have to be on the lookout for primes and avoid them because they can block a three-in-a-row. After playing, ask, “Which multiples are easiest for you to cover and why?” or “How does finding multiples help you with other things you do in math?”

Materials: *Multiple Cover Up* factor cards (pages 4–6), *Multiple Cover Up* game board (page 2 or 3), centimeter cubes for game pieces

- Directions:**
1. The goal of this game is to get more three-in-a-rows than your opponent. The *prime numbers* are free spaces. Either player can use these to make three-in-a-row. For example, a player with a piece on 28 and 30 has three-in-a-row using 28, 29 (free), and 30.
 2. Players take turns pulling a *Multiple Cover Up* factor card.
 3. On their turn, a player covers any two available multiples of the factor they pull. If there are no spaces available, the player loses their turn.
 4. Play until all of the *Multiple Cover Up* factor cards are used.
 5. Players count up all of their “three-in-a-rows.” The player with the most “three-in-a-rows” wins.

MULTIPLE COVER UP

Directions: Flip a card. Cover two multiples of the number on the card. When all of the cards have been used, the player with the most three-in-a-rows wins. A free space can be used for either player.

11 Free	12	13 Free	14	15	16	17 Free	18	19 Free	20
21	22	23 Free	24	25	26	27	28	29 Free	30
31 Free	32	33	34	35	36	37 Free	38	39	40
41 Free	42	43 Free	44	45	46	47 Free	48	49	50
51	52	53 Free	54	55	56	57 Free	58	59	60
61 Free	62	63	64	65	66	67 Free	68	69	70
71 Free	72	73 Free	74	75	76	77	78	79 Free	80
81	82	83	84	85	86	87	88	89 Free	90
91	92	93	94	95	96	97 Free	98	99	100
101 Free	102	103 Free	104	105	106	107 Free	108	109 Free	110
111	112	113 Free	114	115	116	117	118	119 Free	120

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11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50
51	52	53	54	55	56	57	58	59	60
61	62	63	64	65	66	67	68	69	70
71	72	73	74	75	76	77	78	79	80
81	82	83	84	85	86	87	88	89	90
91	92	93	94	95	96	97	98	99	100
101	102	103	104	105	106	107	108	109	110
111	112	113	114	115	116	117	118	119	120

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