

How to Play “Divisibility Rocks”

1. Take a deck of cards, a Divisibility Key, and a bag of rocks.
2. Divide the cards face down evenly among players. Discard any extras.
3. Place the pile of rocks in the center of the playing circle.
4. Decide who is first. The person to his right is in charge of the Divisibility Key.
5. The first player turns over his top card and decides if the number on the card is divisible by 2, 3, 5, 9, and 10. He takes one rock from the center pile for each “yes” answer.
6. If the player to the left disagrees, he or she may “challenge” by saying “Challenge!” Then both players appeal to the person holding the key to see who is right. If the challenger is correct, that person gets the rocks. If the challenger is incorrect, the original player gets to keep the rocks and the challenger loses his or her turn.
7. Play continues clockwise with each person taking a turn, rotating the person who holds the key and the person who is the challenger.
8. When every player has had a turn, the rocks are counted. Whoever has the most rocks gets to keep all the cards from that turn. The rocks are returned to the center pile.
9. If there is a tie, both players involved in the tie turn over their next card and collect the rocks for that card. Whoever holds the card that earns the most rocks wins the round.
10. A player is out when he or she is out of cards; the player with all the cards at the end of the game is the winner.
11. To shorten the game, the teacher may set a time limit; the person with the most cards at the end of the allocated time is the winner.

Divisibility Rocks Cards

24	34
35	36
44	46
48	55

Divisibility Rocks Cards

56	57
60	62
65	72
74	75

Divisibility Rocks Cards

80	84
98	115
117	128
130	140

Divisibility Rocks Cards

150	160
171	175
190	196
200	216

Divisibility Rocks Cards

240	256
260	285
308	309
335	338

Divisibility Rocks Cards

385	408
429	438
447	495
524	567

Divisibility Rocks Cards

625	657
666	669
700	711
715	728

Divisibility Rocks Cards

735	741
770	771
849	888
915	960

Divisibility Rocks Cards

1115	1135
1280	1324
2204	2220
2225	2318