

SOCCER SHOOTOUT INSTRUCTIONS

Welcome to Soccer Shootout! Strap on your shin guards. It's time to score some goals!

The object is to kick soccer balls past the two defenders into the goal. This is a MathDice game, so on each ball you'll find three Scoring Numbers. And, instead of a Target Number, you'll find a Target Range, defined by the jersey numbers of the two players guarding the net.



A Target Range consists of all the Target Numbers inside the boundaries formed by the jersey numbers. If the jersey numbers are 22 and 27, the Target Range would consist of all numbers between 22 and 27.

To play, use your three Scoring Numbers to form math expressions that equal a number in the Target Range of the goal in front of that ball. Give yourself a goal each time you find a DIFFERENT number in the Target Range. If you find two expressions that equal the same Target Number, that only counts as one goal.

A perfect score of six goals can be scored on each challenge. Most of the time, you can score two goals with each of the three balls, but on some problems, the number of possible goals with each ball will vary. For example, three goals might be possible with the top ball, one goal with the second ball, and two goals with the bottom ball. The total possible goals, however will always be six.

When you're finished, tally up all your goals and record your score on your worksheet. Then check the table below the challenge to determine how many MATHDICE POINTS you have earned, and fill in this number in the box in the lower right corner of the worksheet.

BEGINNER LEVEL - For beginner challenges, you may only use addition, subtraction, and multiplication in your math expressions.

INTERMEDIATE LEVEL - For intermediate challenges, you may also use division.

ADVANCED LEVEL - For advanced challenges, you may also use exponents.

EXAMPLE

SCORING NUMBERS

TARGET NUMBERS in this example include all the numbers that fall between 17 and 21.

Ball 1: Scoring numbers 1, 3, 5. Defenders: 17, 21.

Ball 2: Scoring numbers 2, 4, 4. Defenders: 2, 5.

Ball 3: Scoring numbers 3, 3, 6. Defenders: 30, 60.

HOW TO KEEP SCORE

For this challenge, you found six equations in which your answers fell inside the Target Range for that particular shot. Mark down "6" for Total Successful Shots on Goals.

Look at the table below the challenge. Note that six goals is the highest possible score, resulting in 3 MATHDICE POINTS. So, mark a "3" in the box labeled MATHDICE POINTS at the bottom of the scoring worksheet.

NUMBER OF GOALS	MATHDICE POINTS
6	3
5	2
4 or fewer	1

Soccer Shootout Worksheet

GOALS	EQUATION
TOP GOAL	$(5 + 1) \times 3 = 18$
	$(3 + 1) \times 5 = 20$
MIDDLE GOAL	$(4 \div 4) + 2 = 3$
	$(2 \times 4) - 4 = 4$
BOTTOM GOAL	$(3 + 3) \times 6 = 36$
	$(3 \times 3) \times 6 = 54$
6	TOTAL GOALS

MATHDICE POINTS **3**