MATH DICE — TENPIN BOWLING INSTRUCTIONS

Lace up your shoes, we're going bowling!

Here's how to play. You get two balls, and on each ball is a set of three Scoring Numbers.

Your goal is to create expressions using these Scoring Numbers that equal each of the ten Target Numbers represented by the bowling pins.

You can use either set of Scoring Numbers to form your equations. Some of the bowling pins (Target Numbers) can be hit with both bowling balls (Scoring Numbers), some of them with only the first ball, and some with only the second ball. However, it's possible to hit each of the Target Numbers with at least one set of Scoring Numbers.

When you're finished, count your score and record it 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. Good luck!
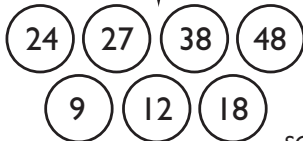
BEGINNER LEVEL - For beginner challenges, you may only use addition, subtraction, and multiplication in your math expressions.

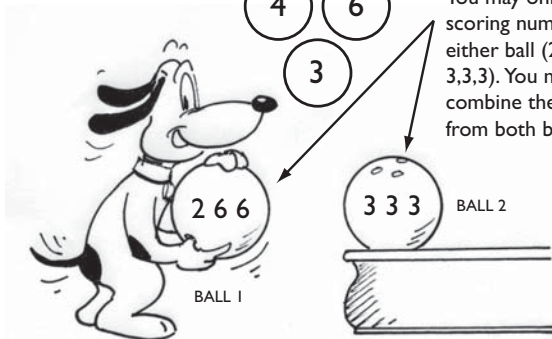**INTERMEDIATE LEVEL - For intermediate challenges, you may also use division.**

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

EXAMPLE

TARGET NUMBERS
Each circle represents a bowling pin and has a specific TARGET NUMBER written inside it.

HOW TO KEEP SCORE
For this challenge, you found equations to successfully knock down nine Target Pins. You missed one pin—number 24. Mark down "9" Total Pins Hit in the space provided.

Looking at the table below the challenge, note that hitting nine pins results in 2 MATHDICE POINTS. So, mark a "2" in the box labeled MATHDICE POINTS at the bottom of the scoring worksheet.

(24) (27) (38) (48)
(9) (12) (18)
(4) (6)
(3)

SCORING NUMBERS
You may only use the scoring numbers from either ball (2,6,6 or 3,3,3). You may not combine the numbers from both balls.

2 6 6 BALL 1

3 3 3 BALL 2

Tenpin Bowling Worksheet

PIN TARGET NUMBER	BALL 1 EQUATION	BALL 2 EQUATION
3	(6 ÷ 6) + 2 = 3	
4		(3 ÷ 3) + 3 = 4
6		(3 × 3) - 3 = 6
9	(6 ÷ 2) + 6 = 9	
12		(3 × 3) + 3 = 12
18		(3 + 3) × 3 = 18
24		
27		(3 × 3) × 3 = 27
38	(6 × 6) + 2 = 38	
48	(6 + 2) × 6 = 48	
(9)	⬅ TOTAL PINS HIT	

MATHDICE POINTS ➤ (2)

NUMBER OF PINS	MATHDICE POINTS
10	3
9	(2)
8 or fewer	1