



# MATHDICE<sup>®</sup> FINAL TARGET

## CHALLENGE SET 4

### BASIC - NO POWERS

Allowed Operators  
+ - \*

		Scoring Dice	Your Equation	Target
<b>START</b> →		3 4 6	_____	21
Discard one die: →	Remove: <input type="text"/>	Add: <b>5</b>	_____	6
Discard one die: →	Replace with: <input type="text"/>	<b>2</b>	_____	17
Discard one die: →	Replace with: <input type="text"/>	<b>4</b>	_____	24

### ADVANCED - YES POWERS

Allowed Operators  
+ - \* / ^

		Scoring Dice	Your Equation	Target
<b>START</b> →		2 4 6	_____	9
Discard one die: →	Remove: <input type="text"/>	Add: <b>3</b>	_____	3
Discard one die: →	Replace with: <input type="text"/>	<b>5</b>	_____	23
Discard one die: →	Replace with: <input type="text"/>	<b>4</b>	_____	10

Name \_\_\_\_\_

Class \_\_\_\_\_

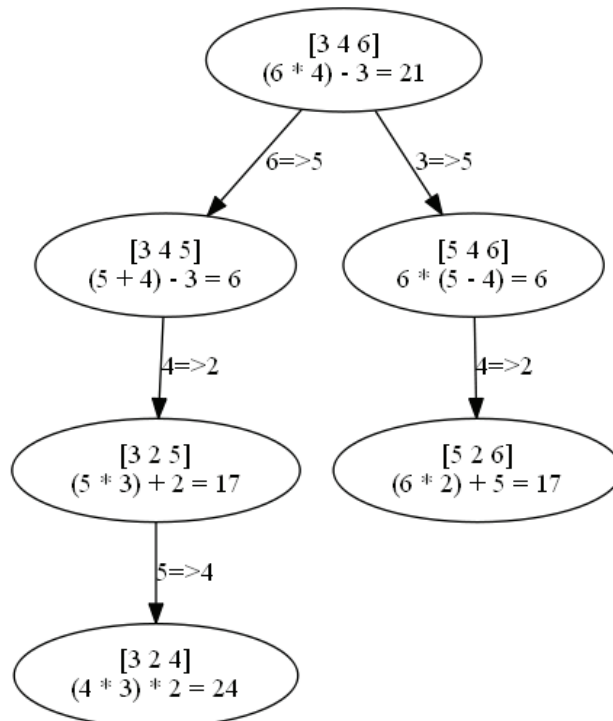


## CHALLENGE SET 4: Basic Solution

**BASIC - NO POWERS** Allowed Operators  
+ - \*

	Scoring Dice	Your Equation	Target
<b>START</b> →	3 4 6	$(6 * 4) - 3 = 21$	21
Discard one die: 6 → Replace with: 5	3 4 5	$(5 + 4) - 3 = 6$	6
Discard one die: 4 → Replace with: 2	3 2 5	$(5 * 3) + 2 = 17$	17
Discard one die: 5 → Replace with: 4	3 2 4	$(4 * 3) * 2 = 24$	24

### Solution Tree





## CHALLENGE SET 4: Advanced Solution

**ADVANCED - YES POWERS** Allowed Operators: + - \* / ^

	Scoring Dice	Your Equation	Target
<b>START</b> →	2 4 6	$(6 \wedge 2) / 4 = 9$	9
Discard one die: 4 → Replace with: 3	2 3 6	$(3 \wedge 2) - 6 = 3$	3
Discard one die: 2 → Replace with: 5	5 3 6	$(6 * 3) + 5 = 23$	23
Discard one die: 3 → Replace with: 4	5 4 6	$5 * (6 - 4) = 10$	10

### Solution Tree

