



# MATHDICE<sup>®</sup>

## PERFECT MISS

SET A  
ADVANCED

Thank you for participating in our  
Math Dice Classroom Program!

We hope you enjoy this week's paper and pencil game.

This packet includes:

- How to Play Instructions
- 16 Challenges
- Solution Sheet

To learn more about our Math Dice Classroom Program, contact

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# MATHDICE®

## PERFECT MISS DISTANCE 3

# How To Play

### Your Goal:

Solve all three equations to get the indicated Perfect Miss score.

### To Play:

Each challenge is packed with three Math Dice challenges. In most of these challenges you will find that you CANNOT HIT the Target Number exactly. That's okay. In this game you are actually trying to MISS the Targets by just the right amount so that when you've solved all three challenges your TOTAL DISTANCE equals the number indicated.

As you solve, you should try to reach the closest number to the Target (if not the Target). This will give you the minimum distance possible. When you've solved all three challenges, add your distances together.

This example has a Distance = 3. Follow the graphic below. We have filled in all information needed to solve the challenge.

<b>Scoring Numbers</b> <b>3 4 6</b> <b>Target</b> <b>24</b> Equation: $(3 \times 6) + 4 = 22$ Distance From Target: <u>2</u>	<b>Scoring Numbers</b> <b>2 5 6</b> <b>Target</b> <b>15</b> Equation: $(5 \times 6) / 2 = 15$ Distance From Target: <u>0</u>	<b>Scoring Numbers</b> <b>2 3 6</b> <b>Target</b> <b>34</b> Equation: $(6^2) - 3 = 33$ Distance From Target: <u>1</u>	<b>Total Distance:</b> <b>3</b>
Correct Answer Earns 5 pts (Check box & add to Score Sheet) <input type="checkbox"/>			

## PERFECT MISS DISTANCE UNKNOWN

You can see the Total Distance in the upper right corner of your challenge worksheets. Distances range from 3-4-5. We also have a set of UNKNOWN DISTANCE challenges. These are fun!

**Total Distance:**

**?**



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## ADVANCED

Allowed Operators  
+ - \* / ^

SET A

# 01

Scoring Numbers

4 5 6

Target

31

Equation: \_\_\_\_\_

Distance From Target: \_\_\_\_\_

Scoring Numbers

2 3 5

Target

38

Equation: \_\_\_\_\_

Distance From Target: \_\_\_\_\_

Scoring Numbers

3 4 5

Target

8

Equation: \_\_\_\_\_

Distance From Target: \_\_\_\_\_

Total  
Distance:

3

Correct Answer Earns 5 pts (Check box & add to Score Sheet)

# 02

Scoring Numbers

3 4 6

Target

26

Equation: \_\_\_\_\_

Distance From Target: \_\_\_\_\_

Scoring Numbers

3 5 6

Target

17

Equation: \_\_\_\_\_

Distance From Target: \_\_\_\_\_

Scoring Numbers

2 5 6

Target

40

Equation: \_\_\_\_\_

Distance From Target: \_\_\_\_\_

Total  
Distance:

3

Correct Answer Earns 5 pts (Check box & add to Score Sheet)

# 03

Scoring Numbers

4 5 6

Target

31

Equation: \_\_\_\_\_

Distance From Target: \_\_\_\_\_

Scoring Numbers

3 5 6

Target

2

Equation: \_\_\_\_\_

Distance From Target: \_\_\_\_\_

Scoring Numbers

2 3 5

Target

38

Equation: \_\_\_\_\_

Distance From Target: \_\_\_\_\_

Total  
Distance:

3

Correct Answer Earns 5 pts (Check box & add to Score Sheet)

# 04

Scoring Numbers

2 4 6

Target

9

Equation: \_\_\_\_\_

Distance From Target: \_\_\_\_\_

Scoring Numbers

2 3 4

Target

27

Equation: \_\_\_\_\_

Distance From Target: \_\_\_\_\_

Scoring Numbers

3 5 6

Target

7

Equation: \_\_\_\_\_

Distance From Target: \_\_\_\_\_

Total  
Distance:

3

Correct Answer Earns 5 pts (Check box & add to Score Sheet)

Name

Class





## ADVANCED

Allowed Operators  
+ - \* / ^

SET A

# 05

Scoring Numbers  
**2 4 6** Target  
**5**

Equation: \_\_\_\_\_

Distance From Target: \_\_\_\_\_

Scoring Numbers  
**4 5 6** Target  
**37**

Equation: \_\_\_\_\_

Distance From Target: \_\_\_\_\_

Scoring Numbers  
**3 4 5** Target  
**28**

Equation: \_\_\_\_\_

Distance From Target: \_\_\_\_\_

Total  
Distance:**4**Correct Answer Earns 5 pts (Check box & add to Score Sheet) 

# 06

Scoring Numbers  
**4 5 6** Target  
**10**

Equation: \_\_\_\_\_

Distance From Target: \_\_\_\_\_

Scoring Numbers  
**2 3 4** Target  
**27**

Equation: \_\_\_\_\_

Distance From Target: \_\_\_\_\_

Scoring Numbers  
**2 3 6** Target  
**37**

Equation: \_\_\_\_\_

Distance From Target: \_\_\_\_\_

Total  
Distance:**4**Correct Answer Earns 5 pts (Check box & add to Score Sheet) 

# 07

Scoring Numbers  
**4 5 6** Target  
**31**

Equation: \_\_\_\_\_

Distance From Target: \_\_\_\_\_

Scoring Numbers  
**3 4 5** Target  
**12**

Equation: \_\_\_\_\_

Distance From Target: \_\_\_\_\_

Scoring Numbers  
**2 3 4** Target  
**27**

Equation: \_\_\_\_\_

Distance From Target: \_\_\_\_\_

Total  
Distance:**4**Correct Answer Earns 5 pts (Check box & add to Score Sheet) 

# 08

Scoring Numbers  
**2 3 4** Target  
**38**

Equation: \_\_\_\_\_

Distance From Target: \_\_\_\_\_

Scoring Numbers  
**2 4 6** Target  
**7**

Equation: \_\_\_\_\_

Distance From Target: \_\_\_\_\_

Scoring Numbers  
**2 3 5** Target  
**38**

Equation: \_\_\_\_\_

Distance From Target: \_\_\_\_\_

Total  
Distance:**4**Correct Answer Earns 5 pts (Check box & add to Score Sheet) 

Name

Class





## ADVANCED

Allowed Operators  
+ - \* / ^

SET A

#09

Scoring Numbers

Target

**3 4 5****40**

Equation: \_\_\_\_\_

Distance From Target: \_\_\_\_\_

Scoring Numbers

Target

**3 5 6****10**

Equation: \_\_\_\_\_

Distance From Target: \_\_\_\_\_

Scoring Numbers

Target

**2 4 6****5**

Equation: \_\_\_\_\_

Distance From Target: \_\_\_\_\_

Total  
Distance:**5**Correct Answer Earns 5 pts (Check box & add to Score Sheet) 

#10

Scoring Numbers

Target

**3 5 6****38**

Equation: \_\_\_\_\_

Distance From Target: \_\_\_\_\_

Scoring Numbers

Target

**2 3 5****3**

Equation: \_\_\_\_\_

Distance From Target: \_\_\_\_\_

Scoring Numbers

Target

**2 3 4****27**

Equation: \_\_\_\_\_

Distance From Target: \_\_\_\_\_

Total  
Distance:**5**Correct Answer Earns 5 pts (Check box & add to Score Sheet) 

#11

Scoring Numbers

Target

**2 3 6****2**

Equation: \_\_\_\_\_

Distance From Target: \_\_\_\_\_

Scoring Numbers

Target

**2 5 6****8**

Equation: \_\_\_\_\_

Distance From Target: \_\_\_\_\_

Scoring Numbers

Target

**3 4 5****40**

Equation: \_\_\_\_\_

Distance From Target: \_\_\_\_\_

Total  
Distance:**5**Correct Answer Earns 5 pts (Check box & add to Score Sheet) 

#12

Scoring Numbers

Target

**3 4 5****40**

Equation: \_\_\_\_\_

Distance From Target: \_\_\_\_\_

Scoring Numbers

Target

**4 5 6****32**

Equation: \_\_\_\_\_

Distance From Target: \_\_\_\_\_

Scoring Numbers

Target

**2 3 5****22**

Equation: \_\_\_\_\_

Distance From Target: \_\_\_\_\_

Total  
Distance:**5**Correct Answer Earns 5 pts (Check box & add to Score Sheet) Name Class 



## ADVANCED

Allowed Operators  
+ - \* / ^

SET A

#13

Scoring Numbers: **2 5 6** Target: **25**

Equation: \_\_\_\_\_

Distance From Target: \_\_\_\_\_

Scoring Numbers: **2 3 6** Target: **32**

Equation: \_\_\_\_\_

Distance From Target: \_\_\_\_\_

Scoring Numbers: **3 4 5** Target: **12**

Equation: \_\_\_\_\_

Distance From Target: \_\_\_\_\_

Total Distance:

Correct Answer Earns 5 pts (Check box & add to Score Sheet)

#14

Scoring Numbers: **2 3 6** Target: **11**

Equation: \_\_\_\_\_

Distance From Target: \_\_\_\_\_

Scoring Numbers: **4 5 6** Target: **31**

Equation: \_\_\_\_\_

Distance From Target: \_\_\_\_\_

Scoring Numbers: **3 4 5** Target: **8**

Equation: \_\_\_\_\_

Distance From Target: \_\_\_\_\_

Total Distance:

Correct Answer Earns 5 pts (Check box & add to Score Sheet)

#15

Scoring Numbers: **3 5 6** Target: **14**

Equation: \_\_\_\_\_

Distance From Target: \_\_\_\_\_

Scoring Numbers: **2 3 4** Target: **26**

Equation: \_\_\_\_\_

Distance From Target: \_\_\_\_\_

Scoring Numbers: **4 5 6** Target: **2**

Equation: \_\_\_\_\_

Distance From Target: \_\_\_\_\_

Total Distance:

Correct Answer Earns 5 pts (Check box & add to Score Sheet)

#16

Scoring Numbers: **2 4 6** Target: **5**

Equation: \_\_\_\_\_

Distance From Target: \_\_\_\_\_

Scoring Numbers: **2 5 6** Target: **29**

Equation: \_\_\_\_\_

Distance From Target: \_\_\_\_\_

Scoring Numbers: **3 4 5** Target: **40**

Equation: \_\_\_\_\_

Distance From Target: \_\_\_\_\_

Total Distance:

Correct Answer Earns 5 pts (Check box & add to Score Sheet)

Name

Class





### DISTANCE: 3

#	Solution 1	Target	Distance	Solution 2	Target	Distance	Solution 3	Target	Distance	Sum of Distances
01	$(6 - 4) ^ 5 = 32$	31	1	$5 * (2 ^ 3) = 40$	38	2	$4 * (5 - 3) = 8$	8	0	3
02	$(4 * 6) + 3 = 27$	26	1	$5 * (6 - 3) = 15$	17	2	$5 * (2 + 6) = 40$	40	0	3
03	$(6 - 4) ^ 5 = 32$	31	1	$(3 + 5) - 6 = 2$	2	0	$5 * (2 ^ 3) = 40$	38	2	3
04	$(6 ^ 2) / 4 = 9$	9	0	$(2 * 3) * 4 = 24$	27	3	$(6 / 3) + 5 = 7$	7	0	3

### DISTANCE: 4

#	Solution 1	Target	Distance	Solution 2	Target	Distance	Solution 3	Target	Distance	Sum of Distances
05	$(4 + 6) / 2 = 5$	5	0	$(5 * 6) + 4 = 34$	37	3	$3 * (4 + 5) = 27$	28	1	4
06	$5 * (6 - 4) = 10$	10	0	$(2 * 3) * 4 = 24$	27	3	$(2 * 3) * 6 = 36$	37	1	4
07	$(6 - 4) ^ 5 = 32$	31	1	$(3 + 4) + 5 = 12$	12	0	$(2 * 3) * 4 = 24$	27	3	4
08	$4 * (3 ^ 2) = 36$	38	2	$(6 / 2) + 4 = 7$	7	0	$5 * (2 ^ 3) = 40$	38	2	4

### DISTANCE: 5

#	Solution 1	Target	Distance	Solution 2	Target	Distance	Solution 3	Target	Distance	Sum of Distances
09	$5 * (3 + 4) = 35$	40	5	$(5 * 6) / 3 = 10$	10	0	$(4 + 6) / 2 = 5$	5	0	5
10	$6 ^ (5 - 3) = 36$	38	2	$(2 ^ 3) - 5 = 3$	3	0	$(2 * 3) * 4 = 24$	27	3	5
11	$(2 ^ 3) - 6 = 2$	2	0	$(6 / 2) + 5 = 8$	8	0	$5 * (3 + 4) = 35$	40	5	5
12	$5 * (3 + 4) = 35$	40	5	$(6 - 4) ^ 5 = 32$	32	0	$(5 ^ 2) - 3 = 22$	22	0	5

### DISTANCE: UNKNOWN

#	Solution 1	Target	Distance	Solution 2	Target	Distance	Solution 3	Target	Distance	Sum of Distances
13	$(2 ^ 5) - 6 = 26$	25	1	$(6 ^ 2) - 3 = 33$	32	1	$(3 + 4) + 5 = 12$	12	0	2
14	$(2 + 3) + 6 = 11$	11	0	$(6 - 4) ^ 5 = 32$	31	1	$4 * (5 - 3) = 8$	8	0	1
15	$(3 + 5) + 6 = 14$	14	0	$(2 * 3) * 4 = 24$	26	2	$(4 + 6) / 5 = 2$	2	0	2
16	$(4 + 6) / 2 = 5$	5	0	$(5 * 6) - 2 = 28$	29	1	$5 * (3 + 4) = 35$	40	5	6