MSCHOLASTIC

## MONSTER

MULITPLICATION


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Teaching Resousces


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Cover and interior design: Jason Robinson
Cover and interior illustrations: Matt Phillips

ISBN-13: 978-0-439-60968-5
ISBN-10: 0-439-60968-2
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Printed in the U.S.A.

## CONTENTS

Introduction ..... 4
How to Make a Multiplication Wheel ..... 5
Multiplication Table ..... 6
Multiplication Wheels
Basic Facts
Multiplying by 1 ..... 7
Multiplying by 2 ..... 9
Multiplying by 3 ..... 11
Multiplying by 4 ..... 13
Multiplying by 5 ..... 15
Multiplying by 6 ..... 17
Multiplying by 7 ..... 19
Multiplying by 8 ..... 21
Multiplying by 9 ..... 23
Multiplying by 10 ..... 25
Multiplying by 11 ..... 27
Multiplying by 12 ..... 29
Mixed Facts
Multiplying by 1 and 2 ..... 31
Multiplying by 3 and 4 ..... 33
Multiplying by 5 and 6 ..... 35
Multiplying by 7 and 8 ..... 37
Multiplying by 9 and 10 ..... 39
Multiplying by 11 and 12 ..... 41

## INTRODUCTION

Welcome to Monster Multiplication Wheels, an engaging collection of hands-on learning manipulatives. The easy-to-make, fun-to-use wheels teach and reinforce the multiplication facts between 1 and 12. Because the wheels are self-correcting, students can practice independently until they master these essential math facts.

In this book you'll find a reproducible multiplication table (page 6), one wheel for each set of facts, ten wheels containing mixed facts, and a blank template that you (or students) can customize. There are also assessments and quizzes (pages 53-60) to help track students' progress followed by reproducible reward certificates.
$11 P$
Help students understand that zero is a very special number in multiplication. A number multiplied by 0 is always equal to 0 . Consider including some zero multiplication facts when you create your own wheels.

## Using the Pre- and PostAssessment Quizzes

Prior to handing out the first wheel pattern, give students a pre-assessment quiz. Each multiplication fact family is represented on the pre- and post-assessment quizzes, so you will be able to get a general sense of the fact families students may need to focus on, either individually or as a class. When you determine it is appropriate, administer the post-assessment quiz to see how students' mastery has developed.

## Using the Self-Checking Quizzes

After students have spent time using the monster multiplication wheel for a particular multiplication fact family, have them take a self-checking quiz. First, photocopy the page containing the appropriate fact family and cut it in half along the dotted line. Save the remaining quiz to hand out as needed. Next, fold over the gray panel so the answers are covered. Then, distribute the sheets to students and have them fill in their answers. Finally, they may lift the panel to reveal the correct answers and check their own work. If you determine it's necessary, ask students to engage in additional practice using the wheel. Working with "the monsters" will help students have fun and stay motivated to stick with the practice.


## Making the Monster Multiplication Wheels

Each multiplication facts wheel is created from two pages: one with a master-the-facts monster and one with numbers. Although you and/or parent volunteers can easily construct the wheels, it's a good opportunity for students to exercise their direction-following skills if you involve them in creating the wheels. First, photocopy the How to Make a Monster Multiplication Wheel directions on the next page and set of patterns for each student. (Copy the wheel patterns onto card stock, if possible.) Students will also need crayons or markers for coloring in the monsters, scissors for culting out the patterns, and brass fasteners for securing the top and bottom pages.

## How to Make a Monster Multiplication Wheel

## MATERIALS

- wheel patterns (2 pages)
- scissors
- crayons or markers
- brass fastener


## DIRECTIONS

1. Color in your master-the-facts monster.
2. Cut out each wheel along the solid line.
3. Cut out the fact opening and answer flap along the dotted lines.
4. Place the monster wheel on top of the numbers wheel.
5. Line up the crosses in the center. Push a brass fastener through the crosses and open at the back. (See the diagram below.)

## Now you're ready to turn to learn!



## Multiplication Table

| $x$ | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| 2 | 0 | 2 | 4 | 6 | 8 | 10 | 12 | 14 | 16 | 18 | 20 | 22 | 24 |
| 3 | 0 | 3 | 6 | 9 | 12 | 15 | 18 | 21 | 24 | 27 | 30 | 33 | 36 |
| 4 | 0 | 4 | 8 | 12 | 16 | 20 | 24 | 28 | 32 | 36 | 40 | 44 | 48 |
| 5 | 0 | 5 | 10 | 15 | 20 | 25 | 30 | 35 | 40 | 45 | 50 | 55 | 60 |
| 6 | 0 | 6 | 12 | 18 | 24 | 30 | 36 | 42 | 48 | 54 | 60 | 66 | 72 |
| 7 | 0 | 7 | 14 | 21 | 28 | 35 | 42 | 49 | 56 | 63 | 70 | 77 | 84 |
| 8 | 0 | 8 | 16 | 24 | 32 | 40 | 48 | 56 | 64 | 72 | 80 | 88 | 96 |
| 9 | 0 | 9 | 18 | 27 | 36 | 45 | 54 | 63 | 72 | 81 | 90 | 99 | 108 |
| 10 | 0 | 10 | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 | 110 | 120 |
| 11 | 0 | 11 | 22 | 33 | 44 | 55 | 66 | 77 | 88 | 99 | 110 | 121 | 132 |
| 12 | 0 | 12 | 24 | 36 | 48 | 60 | 72 | 84 | 96 | 108 | 120 | 132 | 144 |

## Multiplying by 1






## Multiplying by 3



## Multiplying by 3



## Multiplying by 4




## Multiplying by 5




## Multiplying by 6




## Multiplying by 7










## Multiplying by 11




## Multiplying by 12




## Multiplying by 1 and 2



# Multiplying by 1 and 2 



# Multiplying by 3 and 4 



# Multiplying by 3 and 4 



Monster Multiplication Wheels © Scholastic Teaching Resources

## Multiplying by 5 and 6



## Multiplying by 5 and 6



Multiplying by 7 and 8


## Multiplying by 7 and 8



Multiplying by 9 and 10


## Multiplying by 9 and 10



## Multiplying by 11 and 12



## Multiplying by 11 and 12



## Multiplying Doubles



## Multiplying Doubles



# Multiplying by 4, 5, and 6 



## Multiplying by 4, 5, and 6



# Multiplying by 7, 8, and 9 



## Multiplying by 7, 8, and 9



## Multiplying by 10, 11 , and 12



## Multiplying by 10, 11 , and 12




## Multiplying by



Name $\qquad$ Date $\qquad$

## Self-Checking Quir: Multiplying by 1

1. $1 \times 1=$
2. $1 \times 2=$ $\qquad$
3. $1 \times 3=$

3
4. $1 \times 4=$ $\qquad$
5. $1 \times 5=$

5
6. $1 \times 6=$ $\qquad$
6
7. $1 \times 7=$ $\qquad$
8. $1 \times 8=$

8
9. $1 \times 9=$ $\qquad$
10. $1 \times 10=$ $\qquad$
11. $1 \times 11=$
12. $12 \times 12=$

12

Name $\qquad$ Date

## Self-Checking Quiz: Mutiplying by 2

1. $2 \times 1=\quad 2$
2. $2 \times 2=$ $\qquad$ 4
3. $2 \times 3=$ $\qquad$ 6
4. $2 \times 4=$
5. $2 \times 5=$ $\qquad$
6. $2 \times 6=$
7. $2 \times 7=$

14
8. $2 \times 8=$ $\qquad$ 16
9. $2 \times 9=$ $\qquad$ 18
10. $2 \times 10=$

20
11. $2 \times 11=$

22
12. $2 \times 12=$

24

Name $\qquad$ Date $\qquad$

## Self-Checking Quire Multiplying by 3

| 1. | $3 \times 1=\ldots$ | 3 |
| :--- | :--- | :--- |
| 2. | $3 \times 2=\ldots$ | 6 |
| 3. | $3 \times 3=\ldots$ | 9 |
| 4. $3 \times 4=$ | 12 |  |

5. $3 \times 5=$

15
6. $3 \times 6=$ $\qquad$
7. $3 \times 7=$

21
8. $3 \times 8=$ $\qquad$ 24
9. $3 \times 9=$

27
10. $3 \times 10=$
11. $3 \times 11=$

33
12. $3 \times 12=$ $\qquad$

Name $\qquad$ Date

## Self-Checking Quiz: Multiplying by 4

1. $4 \times 1=$ $\qquad$ 4
2. $4 \times 2=$ 8
3. $4 \times 3=$
4. $4 \times 4=$ $\qquad$ 16
5. $4 \times 5=$
6. $4 \times 6=$

24
7. $4 \times 7=$ 28
8. $4 \times 8=$

32
9. $4 \times 9=$

36
10. $4 \times 10=$ 40
11. $4 \times 11=$

44
12. $4 \times 12=$ 48

Name $\qquad$ Date $\qquad$

## Self-Checking Quire Multiplying by 5

1. $5 \times 1=$ $\qquad$ 5
2. $5 \times 2=$ $\qquad$ 10
3. $5 \times 3=$ $\qquad$ 15
4. $5 \times 4=\ldots 20$
5. $5 \times 5=$ 25
6. $5 \times 6=$
7. $5 \times 7=\ldots 35$
8. $5 \times 8=$ $\qquad$
9. $5 \times 9=$ $\qquad$
10. $5 \times 10=$
11. $5 \times 11=$ 55
12. $5 \times 12=$ $\qquad$ 60

Name $\qquad$ Date

## Self-Checking Quiz: Multiplying by 6

1. $6 \times 1=\ldots 6$
2. $6 \times 2=$
3. $6 \times 3=$

18
4. $6 \times 4=$

24
5. $6 \times 5=$

30
6. $6 \times 6=$ 36
7. $6 \times 7=$
8. $6 \times 8=$ 48
9. $6 \times 9=$ $\qquad$
10. $6 \times 10=$ $\qquad$
11. $6 \times 11=$ $\qquad$ 66
12. $6 \times 12=$

72

Name $\qquad$ Date $\qquad$

## Self-Checking Quiz: Multiplying by 7

1. $7 \times 1=$ 7
2. $7 \times 2=$ $\qquad$ 14
3. $7 \times 3=$ $\qquad$ 21
4. $7 \times 4=$ $\qquad$ 28
5. $7 \times 5=$ _ 35
6. $7 \times 6=$
7. $7 \times 7=$
8. $7 \times 8=$ $\qquad$ 56
9. $7 \times 9=$ $\qquad$ 63
10. $7 \times 10=$
11. $7 \times 11=$ $\qquad$ 77
12. $7 \times 12=$ $\qquad$

Name $\qquad$ Date

## Self-Checking Quiz: Multiplying by 8

1. $8 \times 1=$ 8
2. $8 \times 2=$ $\qquad$ 16
3. $8 \times 3=$ 24
4. $8 \times 4=$ 32
5. $8 \times 5=$ 40
6. $8 \times 6=$ 48
7. $8 \times 7=$ $\qquad$
8. $8 \times 8=$ $\qquad$ 64
9. $8 \times 9=$ $\qquad$
10. $8 \times 10=$ $\qquad$ 80
11. $8 \times 11=$

88
12. $8 \times 12=$ $\qquad$

Name $\qquad$ Date $\qquad$

## Self-Checking Quir: Multiplying by 9

| 1. | $9 \times 1=\ldots$ | 9 |
| :--- | :--- | :--- |
| 2. | $9 \times 2=\ldots$ | 18 |
| 3. | $9 \times 3=\ldots$ | 27 |
| 4. | $9 \times 4=\ldots$ | 36 |
| 5. | $9 \times 5=\ldots$ | 45 |
| 6. | $9 \times 6=\ldots$ | 54 |


| 7. | $9 \times 7=\ldots$ | 63 |
| :---: | :---: | :---: |
| 8. | $9 \times 8=\ldots$ | 72 |
| 9. | $9 \times 9=\ldots$ | 81 |
| 10. $9 \times 10=\ldots$ | 90 |  |

11. $9 \times 11=\ldots 99$
12. $9 \times 12=$ $\qquad$

Name $\qquad$ Date

## Self-Checking Quiz: Multiplying by 10

1. $10 \times 1=$ ..... 10
2. $10 \times 2=$ ..... 20
3. $10 \times 3=$ ..... 30
4. $10 \times 4=$ ..... 40
5. $10 \times 5=$ ..... 5060
6. $10 \times 7=$ ..... 70
7. $10 \times 8=$ ..... 80
8. $10 \times 9=$ ..... 90
$\qquad$10011. $10 \times 11=$
$\qquad$ 110
9. $10 \times 12=$ $\qquad$ 120

Name $\qquad$ Date $\qquad$

## Self-Checking Quiz: Multiplying by 11

1. $11 \times 1=\ldots \quad 11$
2. $11 \times 2=$ $\qquad$
3. $11 \times 3=$ $\qquad$
4. $11 \times 4=$ $\qquad$
5. $11 \times 5=$ 55
6. $11 \times 6=$ $\qquad$ 66
7. $11 \times 7=$ $\qquad$ 77
8. $11 \times 8=$ $\qquad$ 88
9. $11 \times 9=$ $\qquad$ 99
10. $11 \times 10=$ $\qquad$ 110
11. $11 \times 11=$ $\qquad$ 121
12. $11 \times 12=$ $\qquad$ 132

Name $\qquad$ Date

## Self-Checking Quiz: Multiplying by 12

1. $12 \times 1=$
2. $12 \times 2=$ $\qquad$ 24
3. $12 \times 3=$ $\qquad$ 36
4. $12 \times 4=$ $\qquad$
5. $12 \times 5=$ $\qquad$ 60
6. $12 \times 6=$ 72
7. $12 \times 7=$ $\qquad$ 84
8. $12 \times 8=$ $\qquad$ 96
9. $12 \times 9=$ $\qquad$ 108
10. $12 \times 10=$ $\qquad$ 120
11. $12 \times 11=$ $\qquad$ 132
12. $12 \times 12=$ $\qquad$ 144
$\qquad$
$\qquad$

## Pre-Assessment

1. $2 \times 2=$ $\qquad$
2. $3 \times 4=$ $\qquad$
3. $1 \times 6=$ $\qquad$ 18. $3 \times 12=$
4. $12 \times 10=$ $\qquad$
5. $5 \times 8=$ $\qquad$ 19. $5 \times 3=$ $\qquad$
6. $6 \times 10=$ $\qquad$ 20. $7 \times 5=$ $\qquad$
7. $7 \times 12=$ $\qquad$ 21. $9 \times 7=$ $\qquad$
8. $8 \times 1=$ $\qquad$ 22. $11 \times 1=$ $\qquad$
9. $9 \times 3=$ $\qquad$ 23. $5 \times 12=$ $\qquad$
10. $10 \times 5=$ $\qquad$ 24. $6 \times 2=$ $\qquad$
11. $11 \times 7=$ $\qquad$ 25. $7 \times 3=$ $\qquad$
12. $12 \times 9=$ $\qquad$ 26. $8 \times 4=$ $\qquad$
13. $2 \times 11=$ $\qquad$ 27. $9 \times 8=$ $\qquad$
14. $4 \times 2=$ $\qquad$ 28. $10 \times 9=$
15. $11 \times 10=$
16. $6 \times 4=$ $\qquad$
17. $8 \times 6=$ $\qquad$
18. $10 \times 8=$ $\qquad$
$\qquad$
$\qquad$
$\qquad$

## Post-Assessment

$$
\begin{array}{ll}
\text { 1. } \quad 4 \times 4= & \text { 16. } 10 \times 1= \\
\text { 2. } \quad 3 \times 11= & \text { 17. } 12 \times 11=
\end{array}
$$

$\qquad$
3. $2 \times 3=$ $\qquad$ 18. $3 \times 8=$
4. $5 \times 6=$ $\qquad$ 19. $5 \times 2=$
5. $7 \times 7=$ $\qquad$ 20. $5 \times 7=$
6. $12 \times 6=$ $\qquad$ 21. $9 \times 9=$
7. $8 \times 7=$ $\qquad$ 22. $11 \times 4=$
8. $9 \times 5=$ $\qquad$ 23. $8 \times 8=$
9. $10 \times 3=$ $\qquad$ 24. $6 \times 12=$ $\qquad$
10. $11 \times 9=$
25. $7 \times 9=$
11. $12 \times 7=$ $\qquad$ 26. $8 \times 5=$
$\qquad$
27. $8 \times 9=$
12. $2 \times 10=$ $\qquad$
13. $4 \times 5=$ $\qquad$ 28. $4 \times 12=$
14. $6 \times 3=$ $\qquad$ 29. $7 \times 10=$ $\qquad$
15. $8 \times 2=$ $\qquad$
30. $11 \times 11=$ $\qquad$

# CONGRATULATIONS! 

## Great!

NAME

## HAS MASTERED THE 



## CONGRATULATIONS!

# HAS MASTERED THE 

公 TIMES TABLE!

Monster Multiplication Wheels © 2008 Scholastic Inc

## CONGRATULATIONS!

# CONGRATULATIONS! 

HAS MASTERED THE筑TIMES TABLE!


## CONGRATULATIONS! <br> HAS MASTERED THE岳 TIMES TABLE:

# CONGRATULATIONS！ 

## HAS MASTERED THE辛了TIMES TABLE！

## Great！



## CONGRATULATIONS！ <br> NAME <br> HAS MASTERED THE fig TIMES TABLE！

# CONGRATULATIONS！ 

# HAS MASTERED THE答 TIMES TABLE！ 

# CONGRATULATIONS! 

## HAS MASTERED THE MiSTIMES TABLE:

## CONGRATULATIONS! <br> HAS MASTERED THE NIMES TABLE!

# CONGRATULATIONS! 

