

# Practice Charts Remind Children to Study.

A simple way to keep parents aware and involved.

Practice charts help children build a home practice habit.

The Math Facts Mad Dash motivates children to study and practice at home, on their own.

Children study on their own for a few minutes a day, and run the dash.

Then they mark their practice chart.

With a glance, parents can see if their children practiced, and how they did on the dash.

Parents do the dash with their children at least once a week. It only takes a minute.

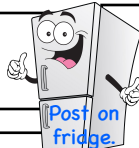
At the end of the week, parents sign the chart, and children bring it to school.

Teachers send home a practice chart once a week.

If the teacher does not send home a practice chart, parents can print and post one once a week.

Print Practice Charts at [studysmart.com](http://studysmart.com)

## Anatomy of a Practice Chart

Name: <i>Patty Smith</i>		Class: <i>Mrs. Unger</i>			<b>Instructions</b> Check the facts you are studying.  Each day, practice, record the date, activity, and score on the dash.
<input type="checkbox"/> 3 + 3	<input type="checkbox"/> 5 + 6	Date	Activity		Score
<input type="checkbox"/> 3 + 4	<input checked="" type="checkbox"/> 5 + 7	9-26	Flashcard game.	6	What was your best score with a parent?  <u>10</u>
<input type="checkbox"/> 3 + 5	<input checked="" type="checkbox"/> 5 + 8	9-27	Wrote a story about 5 + 7.	7	
<input type="checkbox"/> 3 + 6	<input checked="" type="checkbox"/> 5 + 9	9-28	Drew a picture about 5 + 8.	9	
<input checked="" type="checkbox"/> 3 + 7	<input type="checkbox"/> 6 + 6				
<input checked="" type="checkbox"/> 3 + 8	<input type="checkbox"/> 6 + 7				
<input checked="" type="checkbox"/> 3 + 9	<input type="checkbox"/> 6 + 8				
<input checked="" type="checkbox"/> 4 + 4	<input type="checkbox"/> 6 + 9				
<input type="checkbox"/> 4 + 5	<input type="checkbox"/> 7 + 7				
<input checked="" type="checkbox"/> 4 + 6	<input type="checkbox"/> 7 + 8				
<input type="checkbox"/> 4 + 7	<input type="checkbox"/> 7 + 9				
<input checked="" type="checkbox"/> 4 + 8	<input type="checkbox"/> 8 + 8				
<input checked="" type="checkbox"/> 4 + 9	<input type="checkbox"/> 8 + 9				
<input type="checkbox"/> 5 + 5	<input type="checkbox"/> 9 + 9				
Parent Signature: <i>Stacy Smith</i>		Children check boxes of the facts they are practicing.			Parent and child do the dash at least once a week.

# Math Facts Fluency Home Practice Chart (Addition)

## Why math facts fluency?

Understanding and recalling basic math facts is key to success in math.

## The Math Facts Mad Dash is a relay race with math facts.

A relay race adds fun and exercise, while releasing endorphins and sending blood and oxygen to the brain. The dash motivates children to study and practice on their own.

## Motivation matters. If children *want* to know these facts:

- 1) They will be more receptive to instruction.
- 2) They will be more likely to study and practice on their own.

## Why parent and child?

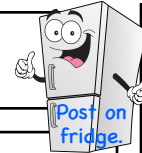
Children do the dash on their own. Parents can join in sometimes. When parents pay attention and participate, children practice with more effort. It only takes one minute to do the dash.

## What Teachers Wish Parents Knew About Math Fluency

This is a guide by teachers for parents. It explains The Math Facts Mad Dash. It includes suggestions, strategies, and fun activities you can do with your children. There are also printable instructional flashcards, and practice charts. They are all free at [studysmart.com](http://studysmart.com).

Name: \_\_\_\_\_

Class: \_\_\_\_\_



- |                                |                                |
|--------------------------------|--------------------------------|
| <input type="checkbox"/> 3 + 3 | <input type="checkbox"/> 5 + 6 |
| <input type="checkbox"/> 3 + 4 | <input type="checkbox"/> 5 + 7 |
| <input type="checkbox"/> 3 + 5 | <input type="checkbox"/> 5 + 8 |
| <input type="checkbox"/> 3 + 6 | <input type="checkbox"/> 5 + 9 |
| <input type="checkbox"/> 3 + 7 | <input type="checkbox"/> 6 + 6 |
| <input type="checkbox"/> 3 + 8 | <input type="checkbox"/> 6 + 7 |
| <input type="checkbox"/> 3 + 9 | <input type="checkbox"/> 6 + 8 |
| <input type="checkbox"/> 4 + 4 | <input type="checkbox"/> 6 + 9 |
| <input type="checkbox"/> 4 + 5 | <input type="checkbox"/> 7 + 7 |
| <input type="checkbox"/> 4 + 6 | <input type="checkbox"/> 7 + 8 |
| <input type="checkbox"/> 4 + 7 | <input type="checkbox"/> 7 + 9 |
| <input type="checkbox"/> 4 + 8 | <input type="checkbox"/> 8 + 8 |
| <input type="checkbox"/> 4 + 9 | <input type="checkbox"/> 8 + 9 |
| <input type="checkbox"/> 5 + 5 | <input type="checkbox"/> 9 + 9 |

Date	Activity

## Instructions

Each day children practice, they record the date and activity.  
  
Post scores for The Math Facts Mad Dash below.

## The Math Facts Mad Dash

What was your best score on your own?

What was your best score with a parent?

Parent Signature: \_\_\_\_\_

# Math Facts Fluency Home Practice Chart (Multiplication)

## Why math facts fluency?

Understanding and recalling basic math facts is key to success in math.

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## Motivation matters. If children *want* to know these facts:

- 1) They will be more receptive to instruction.
- 2) They will be more likely to study and practice on their own.

## Why parent and child?

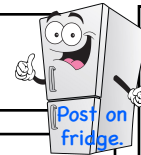
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Name:

Class:



- |                                |                                |
|--------------------------------|--------------------------------|
| <input type="checkbox"/> 3 × 3 | <input type="checkbox"/> 5 × 6 |
| <input type="checkbox"/> 3 × 4 | <input type="checkbox"/> 5 × 7 |
| <input type="checkbox"/> 3 × 5 | <input type="checkbox"/> 5 × 8 |
| <input type="checkbox"/> 3 × 6 | <input type="checkbox"/> 5 × 9 |
| <input type="checkbox"/> 3 × 7 | <input type="checkbox"/> 6 × 6 |
| <input type="checkbox"/> 3 × 8 | <input type="checkbox"/> 6 × 7 |
| <input type="checkbox"/> 3 × 9 | <input type="checkbox"/> 6 × 8 |
| <input type="checkbox"/> 4 × 4 | <input type="checkbox"/> 6 × 9 |
| <input type="checkbox"/> 4 × 5 | <input type="checkbox"/> 7 × 7 |
| <input type="checkbox"/> 4 × 6 | <input type="checkbox"/> 7 × 8 |
| <input type="checkbox"/> 4 × 7 | <input type="checkbox"/> 7 × 9 |
| <input type="checkbox"/> 4 × 8 | <input type="checkbox"/> 8 × 8 |
| <input type="checkbox"/> 4 × 9 | <input type="checkbox"/> 8 × 9 |
| <input type="checkbox"/> 5 × 5 | <input type="checkbox"/> 9 × 9 |

Date	Activity

## Instructions

Each day children practice, they record the date and activity. Post scores for The Math Facts Mad Dash below.

## The Math Facts Mad Dash

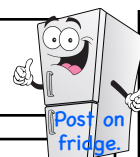
What was your best score on your own?

What was your best score with a parent?

Parent Signature:

Name:

Class:



### Instructions

Each day children practice, they record the date and activity.

Post scores for The Math Facts Mad Dash below.

- |                                |                                |
|--------------------------------|--------------------------------|
| <input type="checkbox"/> 3 + 3 | <input type="checkbox"/> 5 + 6 |
| <input type="checkbox"/> 3 + 4 | <input type="checkbox"/> 5 + 7 |
| <input type="checkbox"/> 3 + 5 | <input type="checkbox"/> 5 + 8 |
| <input type="checkbox"/> 3 + 6 | <input type="checkbox"/> 5 + 9 |
| <input type="checkbox"/> 3 + 7 | <input type="checkbox"/> 6 + 6 |
| <input type="checkbox"/> 3 + 8 | <input type="checkbox"/> 6 + 7 |
| <input type="checkbox"/> 3 + 9 | <input type="checkbox"/> 6 + 8 |
| <input type="checkbox"/> 4 + 4 | <input type="checkbox"/> 6 + 9 |
| <input type="checkbox"/> 4 + 5 | <input type="checkbox"/> 7 + 7 |
| <input type="checkbox"/> 4 + 6 | <input type="checkbox"/> 7 + 8 |
| <input type="checkbox"/> 4 + 7 | <input type="checkbox"/> 7 + 9 |
| <input type="checkbox"/> 4 + 8 | <input type="checkbox"/> 8 + 8 |
| <input type="checkbox"/> 4 + 9 | <input type="checkbox"/> 8 + 9 |
| <input type="checkbox"/> 5 + 5 | <input type="checkbox"/> 9 + 9 |

Date	Activity

### The Math Facts Mad Dash

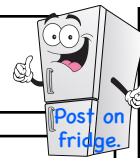
What was your best score on your own?

What was your best score with a parent?

Parent Signature:

Name:

Class:



### Instructions

Each day children practice, they record the date and activity.

Post scores for The Math Facts Mad Dash below.

- |                                |                                |
|--------------------------------|--------------------------------|
| <input type="checkbox"/> 3 + 3 | <input type="checkbox"/> 5 + 6 |
| <input type="checkbox"/> 3 + 4 | <input type="checkbox"/> 5 + 7 |
| <input type="checkbox"/> 3 + 5 | <input type="checkbox"/> 5 + 8 |
| <input type="checkbox"/> 3 + 6 | <input type="checkbox"/> 5 + 9 |
| <input type="checkbox"/> 3 + 7 | <input type="checkbox"/> 6 + 6 |
| <input type="checkbox"/> 3 + 8 | <input type="checkbox"/> 6 + 7 |
| <input type="checkbox"/> 3 + 9 | <input type="checkbox"/> 6 + 8 |
| <input type="checkbox"/> 4 + 4 | <input type="checkbox"/> 6 + 9 |
| <input type="checkbox"/> 4 + 5 | <input type="checkbox"/> 7 + 7 |
| <input type="checkbox"/> 4 + 6 | <input type="checkbox"/> 7 + 8 |
| <input type="checkbox"/> 4 + 7 | <input type="checkbox"/> 7 + 9 |
| <input type="checkbox"/> 4 + 8 | <input type="checkbox"/> 8 + 8 |
| <input type="checkbox"/> 4 + 9 | <input type="checkbox"/> 8 + 9 |
| <input type="checkbox"/> 5 + 5 | <input type="checkbox"/> 9 + 9 |

Date	Activity

### The Math Facts Mad Dash

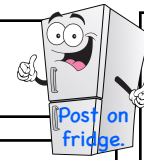
What was your best score on your own?

What was your best score with a parent?

Parent Signature:

Name:

Class:



### Instructions

Each day children practice, they record the date and activity.

Post scores for The Math Facts Mad Dash below.

- 3 x 3       5 x 6
- 3 x 4       5 x 7
- 3 x 5       5 x 8
- 3 x 6       5 x 9
- 3 x 7       6 x 6
- 3 x 8       6 x 7
- 3 x 9       6 x 8
- 4 x 4       6 x 9
- 4 x 5       7 x 7
- 4 x 6       7 x 8
- 4 x 7       7 x 9
- 4 x 8       8 x 8
- 4 x 9       8 x 9
- 5 x 5       9 x 9

Date	Activity

### The Math Facts Mad Dash

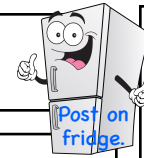
What was your best score on your own?

What was your best score with a parent?

Parent Signature:

Name:

Class:



### Instructions

Each day children practice, they record the date and activity.

Post scores for The Math Facts Mad Dash below.

- 3 x 3       5 x 6
- 3 x 4       5 x 7
- 3 x 5       5 x 8
- 3 x 6       5 x 9
- 3 x 7       6 x 6
- 3 x 8       6 x 7
- 3 x 9       6 x 8
- 4 x 4       6 x 9
- 4 x 5       7 x 7
- 4 x 6       7 x 8
- 4 x 7       7 x 9
- 4 x 8       8 x 8
- 4 x 9       8 x 9
- 5 x 5       9 x 9

Date	Activity

### The Math Facts Mad Dash

What was your best score on your own?

What was your best score with a parent?

Parent Signature:

# 28 vs 169 Facts to Learn

Giving children hundreds of facts to learn can be discouraging. If you include 0s, 1s, 2s, 10s, 11s, and 12s, there are 169 addition and 169 multiplication facts. These are not facts children need to practice. Time spent practicing  $4 \times 1$  is time *not* spent learning  $4 \times 7$ .

Children who do not know addition 2s are not ready for addition. They need more work on number fluency.

Children who do not know multiplication 2s are not ready for multiplication. 2s are addition facts ( $9 \times 2$  is the same as  $9 + 9$ ).

Children do not need to know 10s, 11s or 12s to do more complex math. They are better off learning the essential facts well.

There are just 28 addition and 28 multiplication facts to learn. If children learn these facts well, they will also learn subtraction and division facts in the process. When children see  $12 - 7$ , they know 5 is missing. When children see  $48 \div 6$ , they know 8 is missing.

$4 + 7 =$

$4$   
 $+ 7$   


---

$7$   
 $+ 4$   


---

$7 + 4 =$

*If children learn  $4 + 7$  and  $7 + 4$ , as one fact, they learn an important concept,  $(a + b = b + a)$ , and have even fewer facts to learn.*

## For the Math Facts Mad Dash

Option 1: Randomly choose 10 of these facts the day of the race.

Option 2: Tell students the facts a few days before the race.

### Addition

- |             |             |
|-------------|-------------|
| 1) $3 + 3$  | 15) $5 + 6$ |
| 2) $3 + 4$  | 16) $5 + 7$ |
| 3) $3 + 5$  | 17) $5 + 8$ |
| 4) $3 + 6$  | 18) $5 + 9$ |
| 5) $3 + 7$  | 19) $6 + 6$ |
| 6) $3 + 8$  | 20) $6 + 7$ |
| 7) $3 + 9$  | 21) $6 + 8$ |
| 8) $4 + 4$  | 22) $6 + 9$ |
| 9) $4 + 5$  | 23) $7 + 7$ |
| 10) $4 + 6$ | 24) $7 + 8$ |
| 11) $4 + 7$ | 25) $7 + 9$ |
| 12) $4 + 8$ | 26) $8 + 8$ |
| 13) $4 + 9$ | 27) $8 + 9$ |
| 14) $5 + 5$ | 28) $9 + 9$ |

### Multiplication

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

	0	1	2	3	4	5	6	7	8	9	10	11	12
0	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow
1	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow
2	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow
3	Yellow	Yellow	Yellow	White	Green	Green	Green	Green	Green	Green	Green	Green	Green
4	Yellow	Yellow	Yellow	Green	White	Green	Green	Green	Green	Green	Green	Green	Green
5	Yellow	Yellow	Yellow	Green	Green	White	Green	Green	Green	Green	Green	Green	Green
6	Yellow	Yellow	Yellow	Green	Green	Green	White	Green	Green	Green	Green	Green	Green
7	Yellow	Yellow	Yellow	Green	Green	Green	Green	White	Green	Green	Green	Green	Green
8	Yellow	Yellow	Yellow	Green	Green	Green	Green	Green	White	Green	Green	Green	Green
9	Yellow	Yellow	Yellow	Green	Green	Green	Green	Green	Green	White	Green	Green	Green
10	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow
11	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow
12	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow

*Yellow: Facts children do not need to practice.  
 Green: Learn two facts at once.  
 White: Doubles.*