

# Fluency Practice Ideas

## Kindergarteners- going into 1<sup>st</sup> Grade

**Goals:** Fluently add and subtract within 5, add and subtract within 10, count as many as 20 “items”, count to 100 by 1’s & 10’s

- Give child anything to count: cheerios, Barbie shoes, lego’s,...; “show me 6 Skittles” “show me 9 cheerios”
- Roll a dice- child counts and then recognizes how many dots are showing on the dice
- Roll a dice- child counts the number and then lays out that many items
- War with cards: play with a partner- each person turns over a card- whoever has the greater number wins, tomorrow it might be whoever has the smaller number wins
- War with dice: roll a dice- larger number wins- or smaller wins. “5 is greater than 1” etc. More advanced students can roll 2 dice and add them- and play War with the sums.
- Dominos- practice counting the dots
- Tiny Polka Dot by Math for Love
- Savvy Subitizing Cards by Build Math Minds

Possible websites:

[www.fun4thebrain.com/](http://www.fun4thebrain.com/)

<http://www.coolmath-games.com/1-number-games-addition-subtraction.html>

[www.mathplayground.com](http://www.mathplayground.com)

<http://www.primarygames.com/math.php#>

[www.mathgames.com](http://www.mathgames.com)

iPad Apps:

**TallyTots Counting**

**Subitize Tree**

**Dot Cards**

**Math Zombies (easy setting)**

**Mathtopia**

**Ten Frame Mania**

**Math Limbo**

**Numbers Logic Puzzle**

**Make 10 +**

**Prodigy**

**Monster Math**

**Quick Math jr**

**Ten Frame Fill**

**Peter Pig’s Money Counter**

# Fluency Practice Ideas

## 1<sup>st</sup> Graders- going into 2<sup>nd</sup> Grade

**Goals:** Fluently add and subtract within 20, count to 120 (starting at any number)

- Roll a dice- child counts the number and then lays out that many items
- War with cards: play with a partner- each person turns over a card- whoever has the greater number wins, tomorrow it might be whoever has the smaller number wins
- War with dice: roll and add 2 dice- larger number wins- or smaller wins. "13 is greater than 9" etc. More advanced students roll 3 or more dice and add them- and play War with the sums.
- Dominos- practice adding the dots
- Roll a dice, add 10 to the roll (or whatever you wish to practice)
- Roll a dice, double whatever you roll
- Roll 2 dice- add the 2 together, or subtract the 2
- Play "Find another Name" ---Roll the dice and students give partners (or break apart) to get that number i.e. I roll a 5, I give partners such as  $3 + 2$ , my partner gives a different combination such as  $4 + 1$ . More advanced students could roll 2 dice and then give partners for the sum. (I roll 4 and 5: My sum is 9. I say  $6 + 3$ , my partner says  $8 + 1$ )
- Practice counting starting at random numbers under 100.
- The number is 10 (or 20, or 15) - Write down 10 different number sentences that equal the target number. Practice with picture representations. Do it with many different numbers. Encourage different solutions.
- Mystery number: Think of a number and describe it. I'm thinking of a number greater than- but less than, it's odd, . . .
- Tiny Polka Dot by Math for Love
- Savvy Subitizing Cards by Build Math Minds

Possible websites:

[www.fun4thebrain.com/](http://www.fun4thebrain.com/)

<http://www.coolmath-games.com/1-number-games-addition-subtraction.html>

[www.mathplayground.com](http://www.mathplayground.com)

<http://www.primarygames.com/math.php#>

<http://www.pedagonet.com/FastMath/mathfacts.html>

<https://www.xtramath.org/>

[www.iknowit.com](http://www.iknowit.com)

[www.mathgames.com](http://www.mathgames.com)

iPad apps:

TallyTots Counting

Make 10 +

Dot Cards

Ten Frame Mania

Mathtopia

Math Limbo

Numbers Logic Puzzle

Sushi Monster

Prodigy

Monster Math

Quick Math jr

Peter Pig's Money Counter

# Fluency Practice Ideas

## 2nd Graders- going into 3<sup>rd</sup> Grade

**Goals:** Fluently add and subtract within 20, add and subtract within 100, mentally add or subtract 10 or 100 to a given number, count by 5's, 10's, and 100's.

- Roll a dice, add 10 or random number to whatever they roll
- Roll a dice, double (or triple) whatever you roll
- Roll a dice, double + 1, or 2 or 3. Or triple and add 1.
- Roll 2 dice- add the 2 together, or subtract the 2 (Or roll more dice and add them together)
- Roll a dice and count by 2's, 3's, 4's, 5's – the number of times of the dice roll.
- Roll a dice (or 2-4 and add) tell how many more to get to the benchmark of number of 10, then 20, then 30, etc.
- Play "Find another Name" --Roll 2, 3, or 4 dice and add to get sum. Students give partners (or break apart) to get that number i.e. I roll a 5, 3 and 4. My sum is 12. I give partners such as 9 + 3, my partner gives a different combination such as 6 + 6.
- Roll 2 dice give all 4 fact family problems (I give 2 addition, partner gives 2 subtraction then switch places and partner rolls and gives 2 addition)
- Practice Count by's: 2,4, 6, 8. . . or 5,10,15,. . .etc.
- Play War with either cards or dice – Roll 2 dice (or draw 2 cards) and add. Decide who wins that day, greater or less- children must justify their answer, 13 is greater than 9.
- The number is 10 (or 20, or 15) - Write down 10 different number sentences that equal 10. Do it with many different numbers. Encourage great thinking.
- Flashcards

Possible websites:

Timez Attack at [www.bigbrainz.com](http://www.bigbrainz.com)

[www.fun4thebrain.com/](http://www.fun4thebrain.com/)

<http://www.coolmath-games.com/1-number-games-addition-subtraction.html>

[www.mathplayground.com](http://www.mathplayground.com)

[www.mathgames.com](http://www.mathgames.com)

<http://www.primarygames.com/math.php#>

<http://www.pedagonet.com/FastMath/mathfacts.html>

<https://www.xtramath.org/>

iPad apps:

Numbers Logic Puzzle

Math Balance

Marble Math

Math Zombies (easy setting)

Mathtopia

Math Limbo

Mathtopia

Sumdog

Jump Numbers

Prodigy

Monster Math

Quick Math

Math Evolve

Sushi Monster

# Fluency Practice Ideas

## 3rd Graders- going into 4<sup>th</sup> Grade

Goals: Maintain fluency of all multiplication and division facts and all addition and subtraction facts.

- Roll a dice, double it (or triple, or quadruple it)
- Roll a dice- add 10 ( or 20, or 30 . . .) to whatever you roll
- Practice a specific set of facts by just multiplying whatever they roll by a certain number
- Practice partners to 100. 17's partner is 83, 42's partner is 58.
- Roll 2 dice and multiply them. Mentally figure out how many more to get to a benchmark number like 50 or 100.
- Roll 4 dice- add 2 of them and multiply it by the sum of the other 2, or roll 3 dice – add 2 of them and multiply that sum by the number on the other dice.
- Roll 2 dice give all 4 fact family problems (I give 2 addition, partner gives 2 subtraction than switch places and partner rolls and gives 2 addition, or practice multiplication and division)
- Play "Poison" Roll 6 dice- 1's and 6's are poison and are not counted. Add all the other dice together, roll all "unpoisoned" dice again and continue to get a cumulative sum. Continue rolling all dice until all dice have come up "poisoned". Highest cumulative score wins. (Great game for all grades – just use less or more dice)
- Play War by multiplying or adding 2 or 3 or 4 dice rolls or cards. Highest answer wins.
- Multiplication Snap: Roll 2 dice, or turn over 2 cards. First person to say product wins.
- Krypto

Possible websites:

Timez Attack at [www.bigbrainz.com](http://www.bigbrainz.com) (free version is great)

[www.fun4thebrain.com/](http://www.fun4thebrain.com/)

<http://www.coolmath-games.com/1-number-games-addition-subtraction.html>

[www.mathplayground.com](http://www.mathplayground.com)

[www.mathgames.com](http://www.mathgames.com)

<http://www.primarygames.com/math.php#>

<http://www.pedagonet.com/FastMath/mathfacts.html>

<https://www.xtramath.org/>

iPad apps:

Prodigy

Operation Math

Monster Math

Math Zombies

Sushi Monster

Mathtopia

Math Evolve

Math Limbo

Math Learning Center Games

AB Math II Lite- fun games

Marble Math

Dragon Box

Sumdog

Moose Math

Math Playground Games

Math Tappers

# Fluency Practice Ideas

## **4th Graders-** going into 5<sup>th</sup> Grade

**Goals:** Maintain fluency of all multiplication, division, addition and subtraction facts.

- Roll a dice- multiply by 10, 100, etc.
- Roll a dice- square the number or Practice a specific set of facts by just multiplying whatever they roll by a certain number
- Roll 2 dice- multiply them together and tell how many more to get to the benchmark of 50 or 100.
- Roll 4 dice- add 2 of them and multiply it by the sum of the other 2, or roll 3 dice – add 2 of them and multiply that sum by the number on the other dice.
- Roll 2 dice give all 4 fact family problems (practice multiplication and division)
- Multiplication Snap- 2 dice are rolled, or 2 cards turned over, 1<sup>st</sup> one to get the answer gets the point (more advanced students could make it 3 dice or cards)
- Play War by multiplying or adding 2 or 3 or 4 dice rolls or cards. Practice multiplying using partial products. i.e.,  $3 \times 5 \times 5 = 3 \times 5 = 15$  then  $15 \times 5$  so  $10 \times 5 = 50$  and  $5 \times 5 = 25$  so  $50 + 25 = 75$ .
- “A Round of Dice”- each player makes their own gameboard by writing numbers from 0 – 140. Counting by 10’s. They roll 2 dice and multiply then round the product to the nearest 10. The first player to cross off all of their numbers is the winner. (If a number has already been crossed off- play just continues to the next player)
- Play Fractionator (War with fractions). Each player rolls 2 dice. To form fractions, put the lower numbers in the numerator and higher number in denominator. Decide if larger or smaller fraction wins. Student must vocalize answer.  $3/4$  is greater than  $1/6$ ..
- Krypto

Possible websites:

Timez Attack at [www.bigbrainz.com](http://www.bigbrainz.com) (free version is great)

[www.fun4thebrain.com/](http://www.fun4thebrain.com/)

<http://www.coolmath-games.com/1-number-games-addition-subtraction.html>

[www.mathplayground.com](http://www.mathplayground.com)

[www.mathgames.com](http://www.mathgames.com)

<http://www.primarygames.com/math.php#>

<http://www.pedagonet.com/FastMath/mathfacts.html>

<https://www.xtramath.org/>

iPad apps:

Prodigy

Operation Math

Monster Math

Math Zombies

Sushi Monster

Mathtopia

Math Evolve

Math Learning Center Games

AB Math II Lite- fun games

Krypto

Dragon Box

Sumdog

Math Limbo

Math Playground Games

# Fluency Practice Ideas

## 5th Graders- going into 6<sup>th</sup> Grade

**Goals:** Maintain fluency of all multiplication, division, addition and subtraction facts.

- Roll a dice- multiply by 10, 100, etc.
- Roll a dice- square the number, or practice a specific set of facts by just multiplying whatever they roll by a certain number
- Roll 2 dice- multiply them together and tell how many more to get to the benchmark of 50 or 100.
- Roll 4 dice- add 2 of them and multiply it by the sum of the other 2, or roll 3 dice – add 2 of them and multiply that sum by the number on the other dice.
- Roll 2 dice give all 4 fact family problems (practice multiplication and division)
- Multiplication Snap- 2 dice are rolled, or 2 cards turned over, 1<sup>st</sup> one to get the answer gets the point (More advanced students could make it 3 dice or cards)
- Play War by multiplying or adding 2 or 3 or 4 dice rolls or card. Practice multiplying using partial products. i.e.  $3 \times 5 \times 5 = 3 \times 5 = 15$  then  $15 \times 5$  so  $10 \times 5 = 50$  and  $5 \times 5 = 25$  so  $50 + 25 = 75$ .
- “A Round of Dice”- Each player makes their own gameboard by writing numbers from 0 – 140. Counting by 10’s. They roll 2 dice and multiply then round the product to the nearest 10. The first player to cross off all of their numbers is the winner. (If a number has already been crossed off- play just continues to the next player)
- Play Fractionator (War with fractions). Each player rolls 2 dice. To form fractions, put the lower numbers in the numerator and higher number in denominator. Decide if larger or smaller fraction wins. Student must vocalize answer.  $3/4$  is greater than  $1/6$ .
- Krypto

Possible websites:

Timez Attack at [www.bigbrainz.com](http://www.bigbrainz.com) (free version is great)

[www.fun4thebrain.com/](http://www.fun4thebrain.com/)

[www.coolmath-games.com](http://www.coolmath-games.com)

<http://www.coolmath-games.com/1-number-games-addition-subtraction.html>

[www.mathplayground.com](http://www.mathplayground.com)

[www.mathgames.com](http://www.mathgames.com)

<http://www.primarygames.com/math.php#>

<http://www.pedagonet.com/FastMath/mathfacts.html>

<https://www.xtramath.org/>

iPad apps:

Prodigy

Operation Math

Monster Math

Math Zombies

Sushi Monster

Mathtopia

Math Evolve

Math Learning Center Games

AB Math II Lite- fun games

Marble Math

Dragon Box

Sumdog

Math Tappers

Math Playground Games

# Fluency Practice Ideas

## 6th Graders- going into 7<sup>th</sup> Grade

**Goals:** Maintain fluency of all multiplication, division, addition, and subtraction facts.

- Roll a dice- multiply by 10, 100, etc.
- Roll a dice- square the number, or practice a specific set of facts by just multiplying whatever they roll by a certain number
- Roll a dice- multiply them together and tell how many more to get to the benchmark of 50 or 100.
- Roll 2 dice give all 4 fact family problems (practice multiplication and division)
- Multiplication Snap- 2 dice are rolled, or 2 cards turned over, 1<sup>st</sup> one to get the answer gets the point (more advanced students could make it 3 dice or cards)
- Play War by multiplying or adding 2, 3 or 4 dice rolls or cards. Practice multiplying using partial products. i.e.,  $3 \times 5 \times 5 = 3 \times 5 = 15$  then  $15 \times 5$  so  $10 \times 5 = 50$  and  $5 \times 5 = 25$  so  $50 + 25 = 75$ .
- "A Round of Dice" Each player makes their own gameboard by writing numbers from 0 – 140. Counting by 10's. They roll 2 dice and multiply then round the product to the nearest 10. The first player to cross off all of their numbers is the winner. (If a number has already been crossed off- play just continues to the next player)
- Play Fractionator (War with fractions). Each player rolls 2 dice. To form fractions, put the lower numbers in the numerator and higher number in denominator. Decide if larger or smaller fraction wins. Student must vocalize answer.  $3/4$  is greater than  $1/6$ .
- Wrap-ups
- Krypto

Possible websites:

Timez Attack at [www.bigbrainz.com](http://www.bigbrainz.com)

[www.fun4thebrain.com/](http://www.fun4thebrain.com/)

<http://www.coolmath-games.com/1-number-games-addition-subtraction.html>

[www.mathplayground.com](http://www.mathplayground.com)

[www.mathgames.com](http://www.mathgames.com)

<http://www.primarygames.com/math.php#>

<http://www.pedagonet.com/FastMath/mathfacts.html>

<https://www.xtramath.org/>

iPad apps:

Prodigy

Operation Math

Monster Math

Math Zombies

Sushi Monster

Mathtopia

Math Evolve

Math Learning Center Games

AB Math II Lite- fun games

Marble Math

Dragon Box

Sumdog

Krypto

Math Playground Games

## Math Limbo