

FOR SECOND GRADE PARENTS: Fact Fluency

Grade 1 CCSS.MATH.CONTENT.1.OA.C.6

Add and subtract within 20, **demonstrating fluency for addition and subtraction within 10**. Use strategies such as counting on; making ten (e.g., $8 + 6 = 8 + 2 + 4 = 10 + 4 = 14$); decomposing a number leading to a ten (e.g., $13 - 4 = 13 - 3 - 1 = 10 - 1 = 9$); using the relationship between addition and subtraction (e.g., knowing that $8 + 4 = 12$, one knows $12 - 8 = 4$); and creating equivalent but easier or known sums (e.g., adding $6 + 7$ by creating the known equivalent $6 + 6 + 1 = 12 + 1 = 13$).

Grade 2 CCSS.MATH.CONTENT.2.OA.B.2

Fluently add and subtract within 20 using mental strategies.² By end of Grade 2, know from memory all sums of two one-digit numbers.

Addition - Grade 1 - Fluency with these facts is expected by the end of first grade.

| | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|------|-----|------|
| 0+1 | 1+1 | 2+1 | 3+1 | 4+1 | 5+1 | 6+1 | 7+1 | 8+1 | 9 +1 |
| 0+2 | 1+2 | 2+2 | 3+2 | 4+2 | 5+2 | 6+2 | 7+2 | 8+2 | |
| 0+3 | 1+3 | 2+3 | 3+3 | 4+3 | 5+3 | 6+3 | 7+3 | | |
| 0+4 | 1+4 | 2+4 | 3+4 | 4+4 | 5+4 | 6+4 | | | |
| 0+5 | 1+5 | 2+5 | 3+5 | 4+5 | 5+5 | | | | |
| 0+6 | 1+6 | 2+6 | 3+6 | 4+6 | | | | | |
| 0+7 | 1+7 | 2+7 | 3+7 | | | | | | |
| 0+8 | 1+8 | 2+8 | | 0+9 | 1+9 | | 0+10 | | |

Addition - Grade 2

Fluency is expected by the end of grade 2. Fluency will be defined as: sum within 3 seconds in writing

| | | | | | | | | | | |
|------|------|------|------|------|------|------|------|------|-------|-------|
| 0+1 | 1+1 | 2+1 | 3+1 | 4+1 | 5+1 | 6+1 | 7+1 | 8+1 | 9 +1 | 10+1 |
| 0+2 | 1+2 | 2+2 | 3+2 | 4+2 | 5+2 | 6+2 | 7+2 | 8+2 | 9 +2 | 10+2 |
| 0+3 | 1+3 | 2+3 | 3+3 | 4+3 | 5+3 | 6+3 | 7+3 | 8+3 | 9 +3 | 10+3 |
| 0+4 | 1+4 | 2+4 | 3+4 | 4+4 | 5+4 | 6+4 | 7+4 | 8+4 | 9 +4 | 10+4 |
| 0+5 | 1+5 | 2+5 | 3+5 | 4+5 | 5+5 | 6+5 | 7+5 | 8+5 | 9 +5 | 10+5 |
| 0+6 | 1+6 | 2+6 | 3+6 | 4+6 | 5+6 | 6+6 | 7+6 | 8+6 | 9 +6 | 10+6 |
| 0+7 | 1+7 | 2+7 | 3+7 | 4+7 | 5+7 | 6+7 | 7+7 | 8+7 | 9 +7 | 10+7 |
| 0+8 | 1+8 | 2+8 | 3+8 | 4+8 | 5+8 | 6+8 | 7+8 | 8+8 | 9 +8 | 10+8 |
| 0+9 | 1+9 | 2+9 | 3+9 | 4+9 | 5+9 | 6+9 | 7+9 | 8+9 | 9 +9 | 10+9 |
| 0+10 | 1+10 | 2+10 | 3+10 | 4+10 | 5+10 | 6+10 | 7+10 | 8+10 | 9 +10 | 10+10 |

THESE WILL BE TESTED IN SEPTEMBER: Fluency will be defined as: sum within 3 seconds in writing

| | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|
| 0+1 | 1+1 | 2+1 | 3+1 | 4+1 | 5+1 | 6+1 | 7+1 | 8+1 | 9 +1 |
| 0+2 | 1+2 | 2+2 | 3+2 | 4+2 | 5+2 | 6+2 | 7+2 | 8+2 | 9 +2 |
| 0+3 | 1+3 | 2+3 | 3+3 | 4+3 | 5+3 | 6+3 | 7+3 | 8+3 | 9 +3 |
| 0+4 | 1+4 | 2+4 | 3+4 | 4+4 | 5+4 | 6+4 | 7+4 | 8+4 | 9 +4 |
| 0+5 | 1+5 | 2+5 | 3+5 | 4+5 | 5+5 | 6+5 | 7+5 | 8+5 | 9 +5 |

The first fluency test will be given the week of September 19. At that time I will be able to determine whether I will continue to assess the facts with zero. Students will be given 3 minutes to write the sums for 60 addition facts.

How can students study?

- Flash cards (with or without someone else) Purchase cards or students could make their own.
- Verbally giving someone an answer (perhaps in the car, while waiting in line, other “down” times)
- In writing - parents may request facts sheets sent home
- Games - there are many games which involve practicing facts.
- Electronically - there’s a seemingly endless number of web sites which offer addition and subtraction fact practice! There are a variety of apps for phones and devices.
- IXL.com - students should know their log in and passwords.

Students will keep a record of their practice.

You are expected to study math facts at least 4 times in 7 days.

Students - Keep a record of how you practice your math facts.

| Week of September 19 | How? |
|----------------------|------|
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