

# Mathematical Number Talks

## Number Talks Process

1. Introduce/show problem.
2. Allow students to think about solving the problem in more than one way.
3. Ask students for solutions only.
4. Record all solutions.
5. Ask if anyone can justify one of the answers.
6. Allow students to explain their thinking and how they reached their solution.
7. Record their thinking without adding on so other students can follow the student's thinking.
8. Ask if anyone would like to explain another way to solve the problem.
9. Optional: Ask if anyone would like to justify a different answer.

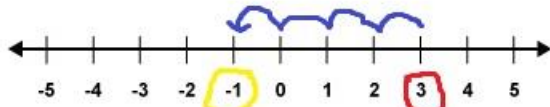
# 3-4

Grade range: 3+

Fluency Standards: 3+

SMP's: 1, 2, 3, 4, 5, 6, 7, 8

Similar Problems: 4-5, 6-8, 0-1, 2-3

Number Line	Counting Back	Decompose	SMP Questions
 <p>Starting at 3, we can count to the left 4 steps. We will end at -1.</p> <p>*If students do not think to use a number line, I would encourage them to by asking, "How could a number line up with this problem?"</p>	<p>Starting at 3. We can count back 4 numbers.</p> <p>3, 2, 1, 0, -1.</p>	<p><math>3-4=</math></p> <p><math>4=(3+1)</math></p> <p><math>3-(3+1)</math></p> <p><math>(3-3)-1</math> *Regroup using the associative property</p> <p><math>0-1=-1</math></p>	<p>SMP 1: How can you start this problem?</p> <p>SMP 2: What properties of multiplication could help us in this situation?</p> <p>SMP 3: How can you prove your solution?</p> <p><u>SMP 4: How could a number line help us?</u></p> <p>SMP 5: What estimates could help us?</p> <p>SMP 6: How might you show that your solution answers this problem?</p> <p>SMP 7: How can patterns help us solve this problem?</p> <p>SMP 8: Does the strategy that you like the best always work</p>

