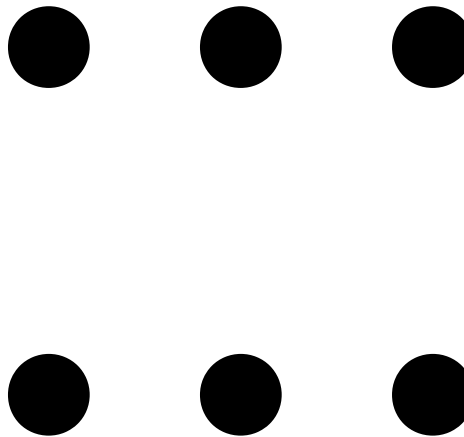


# Mathematical Number Talks

## Number Talks Process

1. Introduce/show problem. How many dots do you see? (Only show the card for 2-3 seconds)
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.



Grade range: TK-8+

Fluency Standards: K-1

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

Similar Problems: Other  
Dot Images

Counting All	Counting on (A)	Counting on (B)	Skip Counting	Multiplication
<p>Student counts all of the dots.</p> <p>••••••</p> <p>1, 2, 3, 4, 5, 6.</p> <p>6</p>	<p>Students sees a grouping of dots and then counts the rest. Student grouping may vary.</p> <p>Example: The student groups the top row as group of 3</p> <p>••• = 3</p> <p>And then counts the bottom there dots.</p> <p>6</p>	<p>Students sees a grouping of dots and then counts the rest. Student grouping may vary.</p> <p>Example: The student groups 4 dots together to make a square.</p> <p>••</p> <p>••</p> <p>And then counts the other 2 to make 6</p> <p>•• •</p> <p>•• + • = 6</p>	<p>Student sees a groups of 2 and will skip count them.</p> <p>• • •</p> <p>• • •</p> <p>2 4 6</p>	<p>Students see three groups of 2 or 2 groups of 3</p> <p>2x3=6</p> <p>3x2=6</p> <p>*An excellent opportunity to talk about arrays and commutative property</p>

