Act like your magic trick is the biggest deal in the world. Have them develop a magic trick for each other.
2. Number Magic

1. Pick a number.

Act like your magic trick is the biggest deal in the world. Have them develop a magic trick for each other.
2. Number Magic

1. Pick a number.
2. Add 7.

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2. Number Magic

1. Pick a number.
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3. Multiply by 2

Act like your magic trick is the biggest deal in the world. Have them develop a magic trick for each other.
2. Number Magic

1. Pick a number.
2. Add 7.
3. Multiply by 2
4. Subtract 5

Act like your magic trick is the biggest deal in the world. Have them develop a magic trick for each other.
Subtract 20. Show them how to turn the instructions into an expression with variables.
2. Number Magic

Subtract 20. Show them how to turn the instructions into an expression with variables.
2. Number Magic

1. Pick a number.
2. Number Magic

1. Pick a number.
2. Add 70.

Subtract 20. Show them how to turn the instructions into an expression with variables.
2. Number Magic

1. Pick a number.
2. Add 70.
3. Subtract 50

Subtract 20. Show them how to turn the instructions into an expression with variables.
2. Number Magic

1. Pick a number.
2. Add 70.
3. Subtract 50
4. Add 5.

Subtract 20. Show them how to turn the instructions into an expression with variables.
2. Number Magic

1. Pick a number.
2. Add 70.
3. Subtract 50
4. Add 5.
5. Subtract 10.

Subtract 20. Show them how to turn the instructions into an expression with variables.
2. Number Magic

1. Pick a number.
2. Add 70.
3. Subtract 50
4. Add 5.
5. Subtract 10.
6. Add 30.

Subtract 20. Show them how to turn the instructions into an expression with variables.
2. Number Magic

1. Pick a number.
2. Add 70.
3. Subtract 50
4. Add 5.
5. Subtract 10.
6. Add 30.
7. Subtract 25

Subtract 20. Show them how to turn the instructions into an expression with variables.
3. Impress A Friend
We’re gonna talk about number tricks today, which are like magic tricks only a lot cooler. ‘Cause they have math in them. The number will always be 7.
7. Number Tricks!

1. Pick a number between 1 and 25.

The Three Swap

We’re gonna talk about number tricks today, which are like magic tricks only a lot cooler. ‘Cause they have math in them. The number will always be 7.
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1. Pick a number between 1 and 25.

2. Add 9 to it.

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3. Multiply the result by 3.

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7. Number Tricks!

1. Pick a number between 1 and 25.

2. Add 9 to it.

3. Multiply the result by 3.


5. Divide by 3.

6. Subtract your original number.

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7. Number Tricks! The Corner Kick

The number will always be your original.
7. Number Tricks!
The Corner Kick

The number will always be your original.
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1. Pick a number between 1 and 25.

The Corner Kick

The number will always be your original.
### 7. Number Tricks!

1. Pick a number between 1 and 25.

   The number will always be your original.
7. **Number Tricks!**

1. Pick a number between 1 and 25.

2. Add 7 to it.

The number will always be your original.
7. Number Tricks!

1. Pick a number between 1 and 25.

2. Add 7 to it.

The Corner Kick

18

25

The number will always be your original.
7. **Number Tricks!**

1. Pick a number between 1 and 25.
2. Add 7 to it.
3. Multiply the result by 4.

<table>
<thead>
<tr>
<th>The Corner Kick</th>
</tr>
</thead>
<tbody>
<tr>
<td>18</td>
</tr>
<tr>
<td>25</td>
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<td>100</td>
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### 7. Number Tricks!

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<thead>
<tr>
<th>Step</th>
<th>Description</th>
<th>Calculation</th>
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<tbody>
<tr>
<td>1</td>
<td>Pick a number between 1 and 25.</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>Add 7 to it.</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>Multiply the result by 4.</td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>Subtract 16.</td>
<td></td>
</tr>
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</table>

The number will always be your original.
7. Number Tricks!

1. Pick a number between 1 and 25.

2. Add 7 to it.

3. Multiply the result by 4.

4. Subtract 16.

The number will always be your original.
### 7. Number Tricks!

1. Pick a number between 1 and 25.

2. Add 7 to it.

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#### The Corner Kick

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</tr>
<tr>
<td>25</td>
</tr>
<tr>
<td>100</td>
</tr>
<tr>
<td>84</td>
</tr>
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</table>

The number will always be your original.
### 7. Number Tricks!

1. Pick a number between 1 and 25.

2. Add 7 to it.

3. Multiply the result by 4.

4. Subtract 16.


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### 7. Number Tricks!

*The Corner Kick*

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<tr>
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</tr>
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<tbody>
<tr>
<td>1. Pick a number between 1 and 25.</td>
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<tr>
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<td>25</td>
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<tr>
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<tr>
<td>4. Subtract 16.</td>
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</tr>
<tr>
<td>5. Divide by 4.</td>
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The number will always be your original.
7. Number Tricks!

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<th>Step</th>
<th>Instruction</th>
<th>The Corner Kick</th>
</tr>
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<tr>
<td>4</td>
<td>Subtract 16.</td>
<td>84</td>
</tr>
<tr>
<td>5</td>
<td>Divide by 4.</td>
<td>21</td>
</tr>
<tr>
<td>6</td>
<td>Subtract 3.</td>
<td>18</td>
</tr>
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The number will always be your original.
7. **Number Tricks!**

1. Pick a number between 1 and 25.

2. Add 7 to it.

3. Multiply the result by 4.

4. Subtract 16.


The number will always be your original number.
7. Number Tricks!

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1. Pick a number between 1 and 25.
2. Add 7 to it.
3. Multiply the result by 4.
4. Subtract 16.

The number will always be your original number.

The Corner Kick

\[ x \]

\[ x + 7 \]

\[ 4(x + 7) \]
7. Number Tricks!

1. Pick a number between 1 and 25.

2. Add 7 to it.

3. Multiply the result by 4.

4. Subtract 16.


The number will always be your original number.

The Corner Kick

\[ x \]

\[ x + 7 \]

\[ 4(x + 7) \]

\[ 4(x + 7) - 16 \]
7. **Number Tricks!**

1. Pick a number between 1 and 25.

2. Add 7 to it.

3. Multiply the result by 4.

4. Subtract 16.


---

**The Corner Kick**

\[
x + 7 \quad \rightarrow \quad 4(x + 7) - 16 \quad \rightarrow \quad \frac{4(x + 7) - 16}{4}
\]

The number will always be your original number.
7. Number Tricks!

1. Pick a number between 1 and 25.
2. Add 7 to it.
3. Multiply the result by 4.
4. Subtract 16.

The number will always be your original number.

The Corner Kick

\[ x \]

\[ x + 7 \]

\[ 4(x + 7) \]

\[ 4(x + 7) - 16 \]

\[ \frac{4(x + 7) - 16}{4} - 3 \]
7. Number Tricks!

1. Pick a number between 1 and 25.

2. Add 9 to it.

3. Multiply the result by 3.


5. Divide by 3.

6. Subtract your original number.

The Three Swap

- Pick a number between 1 and 25.
- Add 9 to it.
- Multiply the result by 3.
- Subtract 6.
- Divide by 3.
- Subtract your original number.
7. Number Tricks!

1. Pick a number between 1 and 25.

2. Add 9 to it.

3. Multiply the result by 3.


5. Divide by 3.

6. Subtract your original number.

The Three Swap

\[ x \]
7. Number Tricks!

1. Pick a number between 1 and 25.
2. Add 9 to it.
3. Multiply the result by 3.
5. Divide by 3.
6. Subtract your original number.

The Three Swap

\[ x \]

\[ x + 9 \]
7. Number Tricks!

1. Pick a number between 1 and 25.

2. Add 9 to it.

3. Multiply the result by 3.


5. Divide by 3.

6. Subtract your original number.

The Three Swap

\[ x \]

\[ x + 9 \]

\[ 3(x + 9) \]
7. Number Tricks!

1. Pick a number between 1 and 25.
2. Add 9 to it.
3. Multiply the result by 3.
5. Divide by 3.
6. Subtract your original number.

The Three Swap

\[ x \]
\[ x + 9 \]
\[ 3(x + 9) \]
\[ 3(x + 9) - 6 \]
7. Number Tricks!

1. Pick a number between 1 and 25.
2. Add 9 to it.
3. Multiply the result by 3.
5. Divide by 3.
6. Subtract your original number.

The Three Swap

\[
x
\]

\[
x + 9
\]

\[
3(x + 9)
\]

\[
3(x + 9) - 6
\]

\[
\frac{3(x + 9) - 6}{3}
\]
7. Number Tricks!

1. Pick a number between 1 and 25.

2. Add 9 to it.

3. Multiply the result by 3.


5. Divide by 3.

6. Subtract your original number.

The Three Swap

\[ x \]

\[ x + 9 \]

\[ 3(x + 9) \]

\[ 3(x + 9) - 6 \]

\[ \frac{3(x + 9) - 6}{3} - x \]
7. Number Tricks!

The number will always be 0.
7. Number Tricks!

1. Pick a number between 1 and 25.

\[
x = \frac{9x - 18}{9} - x + 2
\]

The number will always be 0.
7. Number Tricks!

1. Pick a number between 1 and 25.


\[
x = \frac{(9x - 18)}{9} - x + 2
\]

The number will always be 0.
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x = \frac{9x - 18}{9} - x + 2
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7. Number Tricks!

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The number will always be 0.
7. Number Tricks!

1. Pick a number between 1 and 25.


5. Subtract your original number.

\[ \frac{9x - 18}{9} - x + 2 \]

The number will always be 0.
7. Number Tricks!

1. Pick a number between 1 and 25.


5. Subtract your original number.

6. Add 2.

The number will always be 0.
7. Number Tricks!

The number will always be 27.

The Lefty No-Looker
7. Number Tricks!
The Lefty No-Looker

\[ 4 \left( \frac{x + 7}{4} + 5 \right) - x \]

The number will always be 27.
7. Number Tricks!

The Lefty No-Looker

\[ 4 \left( \frac{x + 7}{4} + 5 \right) \]

\[ 4 \left( \frac{x + 7}{4} + 5 \right) - x \]

The number will always be 27.
7. Number Tricks!

The number will always be 27.
7. Number Tricks!

The Lefty No-Looker

\[
\frac{x + 7}{4} + 5
\]

\[
4 \left( \frac{x + 7}{4} + 5 \right) - x
\]

The number will always be 27.
The number will always be 27.
7. Number Tricks!

The Lefty No-Looker

\[
x + 7
\]

\[
\frac{x + 7}{4} + 5
\]

\[
4 \left( \frac{x + 7}{4} + 5 \right)
\]

\[
4 \left( \frac{x + 7}{4} + 5 \right) - x
\]

The number will always be 27.
7. Number Tricks!

6. Subtract your original number.

\[ x + 7 \]

\[ \frac{x + 7}{4} + 5 \]

\[ 4 \left( \frac{x + 7}{4} + 5 \right) - x \]

The number will always be 27.
7. Number Tricks!

5. Multiply by 4.

6. Subtract your original number.

The number will always be 27.

The Lefty No-Looker

\[
x
\]

\[
x + 7
\]

\[
x + \frac{7}{4}
\]

\[
x + \frac{7}{4} + 5
\]

\[
x + \left(\frac{7}{4} + 5\right)
\]

\[
4\left(\frac{x + 7}{4} + 5\right) - x
\]

The number will always be 27.
7. Number Tricks!

4. Add 5.

5. Multiply by 4.

6. Subtract your original number.

The number will always be 27.

---

The Lefty No-Looker

\[
x
\]

\[
x + 7
\]

\[
\frac{x + 7}{4}
\]

\[
\frac{x + 7}{4} + 5
\]

\[
4 \left( \frac{x + 7}{4} + 5 \right)
\]

\[
4 \left( \frac{x + 7}{4} + 5 \right) - x
\]
7. **Number Tricks!**


4. Add 5.

5. Multiply by 4.

6. Subtract your original number.

The number will always be 27.

---

**The Lefty No-Looker**

\[
x
\]

\[
x + 7
\]

\[
\frac{x + 7}{4} + 5
\]

\[
4\left(\frac{x + 7}{4} + 5\right) - x
\]

The number will always be 27.
7. Number Tricks!

2. Add 7.


4. Add 5.

5. Multiply by 4.

6. Subtract your original number.

The number will always be 27.

The Lefty No-Looker

\[
\begin{align*}
&x \\
&x + 7 \\
&\frac{x + 7}{4} \\
&\frac{x + 7}{4} + 5 \\
&4\left(\frac{x + 7}{4} + 5\right) \\
&4\left(\frac{x + 7}{4} + 5\right) - x
\end{align*}
\]
7. Number Tricks!

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2. Add 7.
4. Add 5.
5. Multiply by 4.
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The number will always be 27.

The Lefty No-Looker

\[
x\]
\[
\frac{x + 7}{4} + 5
\]
\[
4\left(\frac{x + 7}{4} + 5\right)
\]
\[
4\left(\frac{x + 7}{4} + 5\right) - x
\]
4. Writing These Mathematically
4. Writing These Mathematically

1. Pick a number.
4. Writing These Mathematically

1. Pick a number.
2. Subtract 15.
4. Writing These Mathematically

1. Pick a number.
2. Subtract 15.
3. The result is 12.
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1. Pick a number.
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1. Pick a number.
2. Add 8.5
4. Writing These Mathematically

1. Pick a number.
2. Subtract 15.
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1. Pick a number.
2. Divide by 4.
3. The result is -5.

1. Pick a number.
2. Add 8.5
3. The result is 72.
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1. Pick a number.
2. Add 8.5
3. The result is 72.

1. Pick a number.
3. The result is 14.

1. Pick a number.
3. The result is 10.

1. Pick a number.
3. The result is 15.

1. Pick a number.
## 4. Writing These Mathematically

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27
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### Solve each equation.

1. \(x - 8 = 0\)  
2. \(c - 4 = 9\)  
3. \(-4 = \frac{2}{5}a\)  
4. \(-8n = -64\)  
5. \(b + 5 = -13\)  
6. \(6 = x + 2\)  
7. \(-7y = 28\)  
8. \(-101 = -\frac{r}{3}\)  
9. \(67 = w - 65\)  
10. \(5b = 145\)  
11. \(\frac{m}{7} = 12\)  
12. \(-4 = k + 19\)

Subtract 20. Show them how to turn the instructions into an expression with variables.