

OBJECTIVE: To prove number puzzles algebraically.

Secret Number!

Practice with a number

Choose a number

Subtract 4

Multiply by 6

Add 18

Divide by 2

Add 3

Subtract the original number

Divide by 2

The answer will be your original number!

1. Choose a number (use a variable)	
2. Subtract 4	
3. Multiply by 6	
4. Add 18	
5. Divide by 2	
6. Add 3	
7. Subtract the original number	
8. Divide by 2	
9. The answer will be your original number	

Eight is Great!

Practice with a number

Choose a number

Multiply by 8

Add 16

Divide by 4

Add 10

Divide by 2

Subtract the original number

Add 1

The answer will be 8!

1. Choose a number (use a variable)	
2. Multiply by 8	
3. Add 16	
4. Divide by 4	
5. Add 10	
6. Divide by 2	
7. Subtract the original number	
8. Add 1	
9. The answer will be 8	