Name: _____

Complex Numbers Circuit

Starting with number 1, simplify the expression. Hunt for your answer and label that problem #2. When you are done, write the answer of the 24th question in the blank next to #1. You do NOT need a calculator for this. Good luck!

1. Answer:	Answer: 15
Simplify: i ²	Simplify: $\sqrt{169}$
Answer: $3\sqrt{11}$	Answer: 8 + 5 <i>i</i>
_	
Simplify: $\sqrt{-36}$	Simplify: $\frac{\sqrt{-75}}{\sqrt{25}}$
10/2	
Answer: $18\sqrt{2}$	Answer: i
Simplify: $(2 + 3i) + (6 - 2i)$	Simplify: $3t^2$
Answer: 8 + <i>i</i>	Answer: $6i\sqrt{2}$
Simplify: $(2 + 3i) - (6 - 2i)$	Simplify: $\sqrt{-75}$
Answer: 3 <i>i</i>	Answer: $i\sqrt{3}$
Simplify: $\sqrt{225}$	Simplify: $\frac{\sqrt{25}}{\sqrt{-75}}$
	Simplify. $\sqrt{-75}$

Name:		
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Answer: 6i	Answer: -1
Simplify: $\sqrt{-72}$	Simplify: i ⁵
r J. v	
Answer: $3\sqrt{7}$	Answer: 13
Simplify: $\sqrt{99}$	Simplify: $\sqrt{63}$
Answer: $-10i\sqrt{3}$	Answer: $5i\sqrt{3}$
	Allswer: 31V 5
Simplify: $-3i\sqrt{-72}$	Simplify: $3i\sqrt{-72}$
Answer: $-18\sqrt{2}$	Answer: -9
Simplify: $2i^2\sqrt{-75}$	Simplify -3i ³
Answer: -3	Answer: 2
Simplify $(3i)^2$	Simplify: $(2 + 3i)(6 + 2i)$
√3	Answer: -2 <i>i</i>
Answer: $-\frac{\sqrt{3}}{3}i$	
Simplify: $\frac{\sqrt{72}}{\sqrt{-18}}$	Simplify: $\frac{\sqrt{-72}}{\sqrt{-18}}$
- · ν-18	
Answer: 6 + 22 <i>i</i>	Answer: -4 + 5 <i>i</i>
Simplify: (6 + 2i)(6 - 2i)	Simplify: $(2 + 3i) + (6 + 2i)$
Simping. (0 + 21)(0 - 21)	Simplify. $(2 \pm 3i) \pm (0 \pm 2i)$