

Bringing Maths to Life - Fried Circuits

Your job is to rewire these fried circuits and restore power, such that:

- All numbers in each grid must be included as part of a wire.
- The numbers included as part of each wire must **add to 10** (two or more numbers can be linked).
- No wires may cross or share a space with another wire.
- Wires may only run horizontally or vertically.

EXAMPLE

	①		⑤		⑦
	①				
		⑧	③		③
			④		⑤
	⑥	②		④	
			⑨	②	

SOLUTION

	①		⑤		⑦
	①				
		⑧	③		③
			④		⑤
	⑥	②		④	
			⑨	②	

The solution shows the numbers from the example grid connected by colored wires. A green wire connects 1, 5, 7, 9, 6, 2, 1. A yellow wire connects 1, 8, 3, 6, 2. A purple wire connects 8, 2. An orange wire connects 4, 3, 4, 2. A blue wire connects 5, 3, 5. A red wire connects 7, 3.

BEGINNER

		⑨		
	⑥		⑦	
	③		④	
		①		

EASY #01

⑨					
		⑤	②	⑤	
	①	③	⑧	⑦	
	⑥				④

EASY #02

⑥					
	⑧			①	⑤
	⑦				
		②			⑨
	③	④			
				⑤	

MODERATE #01

	⑦	④			①
				⑥	
				①	
	⑧			③	
			②		
				⑨	
	⑦			②	

MODERATE #02

					①
	②			③	
		⑦		⑨	⑧
		③	④		⑤
				②	
	⑥				

HARD #01

3							
		3		7	1		
							6
	2			1			
9	5			8			
				4			
2				5			4

HARD #02

1			3	6			
			2				
			7				9
	2						4
		4		4	2		
						8	1
7				4			

EXTREME #01

			2	9			
3			6				
	8						1
	1			7			6
2							2
		6				1	3
	5			3			5

Fried circuits with fractions, decimals and percentages. Each circuit must **add to 1**.

	$\frac{4}{8}$			
$\frac{1}{4}$				$\frac{3}{4}$
$\frac{1}{2}$			$\frac{1}{2}$	
	$\frac{4}{8}$	$\frac{1}{4}$		$\frac{6}{8}$

		0.75			
$\frac{2}{10}$				$\frac{1}{5}$	
	$\frac{1}{4}$		25%		
				$\frac{2}{4}$	
		0.4	$\frac{6}{8}$		
		$\frac{1}{2}$			$\frac{6}{10}$
0.6					

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