

# Plants Addition and Subtraction Facts up to 20 Mosaic

Solve the calculations to reveal the hidden picture. Each answer has a special colour.

8 = green

6 = yellow

16 = pink

				$8 + 8$				
			$10 + 6$	$11 + 5$	$9 + 7$			
		$7 + 9$	$12 + 4$	$3 + 3$	$14 + 2$	$5 + 11$		
		$15 + 1$	$6 + 10$	$2 + 4$	$13 + 3$	$3 + 13$		
			$16 + 0$	$8 + 8$	$1 + 15$			
				$6 + 2$				
				$2 + 6$				
		$5 + 3$		$1 + 7$		$3 + 5$		
			$8 + 0$	$4 + 4$	$6 + 2$			
				$7 + 1$				

**Challenge:** How many ways can you make 6 using addition? Have you found all the ways? How do you know? Can you work systematically?

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				8 + 8				
			10 + 6	11 + 5	9 + 7			
		7 + 9	12 + 4	3 + 3	14 + 2	5 + 11		
		15 + 1	6 + 10	2 + 4	13 + 3	3 + 13		
			16 + 0	8 + 8	1 + 15			
				6 + 2				
				2 + 6				
		5 + 3		1 + 7		3 + 5		
			8 + 0	4 + 4	6 + 2			
				7 + 1				

**Challenge:** How many ways can you make 6 using addition? Have you found all the ways? How do you know? Can you work systematically?

6 + 0, 5 + 1, 4 + 2, 3 + 3, 2 + 4, 1 + 5, 0 + 6.

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7 and 8 = green

12 and 13 = blue

15 = orange

				$14 - 7$			$9 - 1$	
			$15 - 8$	$20 - 13$	$7 - 0$		$14 - 6$	
	$8 - 0$		$10 - 3$	$19 - 12$	$8 - 1$	$20 - 12$	$10 - 2$	
	$20 - 12$		$9 - 2$	$11 - 4$	$16 - 9$			
	$10 - 2$	$15 - 7$	$12 - 5$	$17 - 10$	$11 - 3$			
			$13 - 5$	$18 - 10$	$16 - 8$			
	$20 - 8$	$19 - 7$	$18 - 6$	$17 - 5$	$16 - 4$	$15 - 3$	$14 - 2$	
	$20 - 7$	$20 - 5$	$16 - 1$	$17 - 2$	$18 - 3$	$19 - 4$	$13 - 1$	
		$19 - 6$	$18 - 5$	$17 - 4$	$16 - 3$	$15 - 2$		
			$14 - 1$	$12 - 0$	$13 - 0$			

**Challenge:** How many ways can you add the numbers 18 and 1? Do you get the same answer? Why?

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7 and 8 = green

12 and 13 = blue

15 = orange

				14 - 7			9 - 1	
			15 - 8	20 - 13	7 - 0		14 - 6	
	8 - 0		10 - 3	19 - 12	8 - 1	20 - 12	10 - 2	
	20 - 12		9 - 2	11 - 4	16 - 9			
	10 - 2	15 - 7	12 - 5	17 - 10	11 - 3			
			13 - 5	18 - 10	16 - 8			
	20 - 8	19 - 7	18 - 6	17 - 5	16 - 4	15 - 3	14 - 2	
	20 - 7	20 - 5	16 - 1	17 - 2	18 - 3	19 - 4	13 - 1	
		19 - 6	18 - 5	17 - 4	16 - 3	15 - 2		
			14 - 1	12 - 0	13 - 0			

**Challenge:** How many ways can you add the numbers 18 and 1? Do you get the same answer? Why?

**18 + 1 = 19, 1 + 18 = 19, 18 - 1 = 17. Yes because numbers can be added in any order**

# Plants Addition and Subtraction Facts up to 20 Mosaic

Solve the calculations to reveal the hidden picture. Each answer has a special colour.

0 to 10 = green

11 to 20 = orange

				$4 + 4$				
$1 - 1$				$20 - 15$				$16 - 10$
	$20 - 10$	$3 + 3$		$15 - 5$			$2 + 8$	
		$5 + 5$		$6 + 4$		$9 - 2$		
$2 + 2$	$5 + 5$	$11 - 1$		$7 + 3$	$9 + 1$		$19 - 12$	$13 - 5$
$12 - 2$		$13 - 3$	$1 + 1$	$8 + 2$	$9 - 3$	$1 + 9$		$17 - 10$
$14 - 4$	$20 + 0$	$20 - 0$	$17 - 2$	$5 + 6$	$17 - 5$	$19 - 1$	$7 + 7$	$18 - 10$
$10 - 0$		$18 - 1$	$10 + 5$	$10 + 10$	$10 + 2$	$12 + 8$		
			$20 - 9$	$20 - 7$	$16 + 3$			
			$14 - 1$	$12 - 0$	$13 - 0$			

**Challenge:** Challenge question: The plant has 1 red flower, 2 blue flowers and 4 yellow flowers. How many flowers are there altogether? How many different ways could you work out the problem?

# Plants Addition and Subtraction Facts up to 20 Mosaic Answers

Solve the calculations to reveal the hidden picture. Each answer has a special colour.

0 to 10 = green

11 to 20 = orange

				4 + 4				
1 - 1				20 - 15				16 - 10
	20 - 10	3 + 3		15 - 5			2 + 8	
		5 + 5		6 + 4		9 - 2		
2 + 2	5 + 5	11 - 1		7 + 3	9 + 1		19 - 12	13 - 5
12 - 2		13 - 3	1 + 1	8 + 2	9 - 3	1 + 9		17 - 10
14 - 4	20 + 0	20 - 0	17 - 2	5 + 6	17 - 5	19 - 1	7 + 7	18 - 10
10 - 0		18 - 1	10 + 5	10 + 10	10 + 2	12 + 8		
			20 - 9	20 - 7	16 + 3			
			14 - 1	12 - 0	13 - 0			

**Challenge:** Challenge question: The plant has 1 red flower, 2 blue flowers and 4 yellow flowers. How many flowers are there altogether? How many different ways could you work out the problem?  $4 + 1 + 2$ ,  $4 + 2 + 1$ ,  $1 + 4 + 2$ ,  $1 + 2 + 4$ ,  $2 + 1 + 4$ ,  $2 + 4 + 1$ .