

Healthy Eating Addition and Subtraction Facts up to 20 Mosaic

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

red = 0-8

green = 9-12

brown = 13-15

black = 16-20

	$10 + 2$	$6 + 6$				$3 + 6$	$6 + 5$	
	$9 + 3$	$12 + 0$	$5 + 7$	$10 + 5$	$1 + 11$	$11 + 1$	$10 + 1$	
		$6 + 4$	$5 + 5$	$6 + 7$	$10 + 0$	$4 + 8$		
	$1 + 1$	$4 + 3$	$2 + 3$	$7 + 7$	$0 + 2$	$19 + 1$	$3 + 1$	
	$1 + 0$	$1 + 3$	$4 + 4$	$20 + 0$	$3 + 2$	$3 + 3$	$2 + 4$	
	$2 + 1$	$8 + 8$	$4 + 1$	$3 + 5$	$2 + 6$	$2 + 3$	$1 + 1$	
	$2 + 2$	$0 + 1$	$2 + 0$	$4 + 2$	$17 + 3$	$4 + 0$	$1 + 4$	
		$1 + 2$	$10 + 9$	$2 + 5$	$6 + 1$	$7 + 1$		
			$5 + 2$	$3 + 0$	$5 + 3$			

Challenge: How many ways can you make 5 by adding 2 numbers? Have you found all the ways? How do you know?

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	10 + 2	6 + 6				3 + 6	6 + 5	
	9 + 3	12 + 0	5 + 7	10 + 5	1 + 11	11 + 1	10 + 1	
		6 + 4	5 + 5	6 + 7	10 + 0	4 + 8		
	1 + 1	4 + 3	2 + 3	7 + 7	0 + 2	19 + 1	3 + 1	
	1 + 0	1 + 3	4 + 4	20 + 0	3 + 2	3 + 3	2 + 4	
	2 + 1	8 + 8	4 + 1	3 + 5	2 + 6	2 + 3	1 + 1	
	2 + 2	0 + 1	2 + 0	4 + 2	17 + 3	4 + 0	1 + 4	
		1 + 2	10 + 9	2 + 5	6 + 1	7 + 1		
			5 + 2	3 + 0	5 + 3			

Challenge: How many ways can you make 5 by adding 2 numbers? Have you found all the ways? How do you know?

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

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red = 0-6

brown = 7-12

green = 13-20

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

Challenge: The square with the calculation $15 - 9$ would need to be coloured red. Is this true? Prove it.

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

Challenge: The square with the calculation $15 - 9$ would need to be coloured red. Is this true? Prove it.

Yes, $15 - 9 = 6$.

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light green = 0-5

red = 6-12

dark green = 13-20

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

Challenge: $10 \ ? \ 3 = \ ?$ What could the missing symbol be in this calculation? If it is a subtraction, what colour could you colour it? If it is an addition, what colour could you colour it? Explain your thinking to a friend.

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red = 6-12

dark green = 13-20

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

Challenge: $10 \ ? \ 3 = ?$ What could the missing symbol be in this calculation? If it is a subtraction, what colour could you colour it? If it is an addition, what colour could you colour it? Explain your thinking to a friend.

10 - 3 = 7 - red, 10 + 3 = 13 - dark green