

Healthy Eating Addition and Subtraction Facts up to 100 Mosaic

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

red = 0 to 30

green = 31 to 60

brown = 61 to 80

black = 81 to 100

	$20 + 15$						$26 + 15$	
$21 + 21$	$15 + 16$	$20 + 14$				$45 + 15$	$52 + 3$	$16 + 16$
	$30 + 30$	$22 + 22$	$30 + 7$	$34 + 42$	$52 + 2$	$24 + 8$	$30 + 20$	
	$13 + 1$	$25 + 25$	$20 + 20$	$32 + 37$	$36 + 10$	$35 + 7$	$9 + 9$	
$21 + 6$	$14 + 14$	$20 + 5$	$12 + 7$	$40 + 40$	$13 + 5$	$76 + 5$	$7 + 7$	$22 + 4$
$50 + 50$	$22 + 7$	$10 + 10$	$10 + 1$	$70 + 16$	$16 + 12$	$2 + 2$	$27 + 3$	$21 + 8$
$2 + 1$	$20 + 10$	$45 + 45$	$30 + 0$	$6 + 6$	$8 + 7$	$15 + 15$	$13 + 15$	$76 + 10$
	$28 + 2$	$12 + 12$	$10 + 11$	$16 + 4$	$80 + 19$	$16 + 14$	$29 + 1$	
		$0 + 0$	$85 + 3$	$3 + 4$	$8 + 8$	$12 + 10$		
			$13 + 12$	$28 + 1$	$5 + 5$			

Challenge: How many ways can you make 10 by adding 2 numbers together? Have you found all the ways? How do you know? Are there more ways to make 10 by taking away 2 numbers? Why? Explain your thinking.

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	20 + 15						26 + 15	
21 + 21	15 + 16	20 + 14				45 + 15	52 + 3	16 + 16
	30 + 30	22 + 22	30 + 7	34 + 42	52 + 2	24 + 8	30 + 20	
	13 + 1	25 + 25	20 + 20	32 + 37	36 + 10	35 + 7	9 + 9	
21 + 6	14 + 14	20 + 5	12 + 7	40 + 40	13 + 5	76 + 5	7 + 7	22 + 4
50 + 50	22 + 7	10 + 10	10 + 1	70 + 16	16 + 12	2 + 2	27 + 3	21 + 8
2 + 1	20 + 10	45 + 45	30 + 0	6 + 6	8 + 7	15 + 15	13 + 15	76 + 10
	28 + 2	12 + 12	10 + 11	16 + 4	80 + 19	16 + 14	29 + 1	
		0 + 0	85 + 3	3 + 4	8 + 8	12 + 10		
			13 + 12	28 + 1	5 + 5			

Challenge: How many ways can you make 10 by adding 2 numbers together? Have you found all the ways? How do you know? Are there more ways to make 10 by taking away 2 numbers? Why? Explain your thinking.

11 ways - 0 + 10, 1 + 9, 2 + 8, 3 + 7, 4 + 6, 5 + 5, 6 + 4, 7 + 3, 8 + 2, 9 + 1, 10 + 0

Yes, you can take away from any number which is more than 10.

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			$70 - 5$	$100 - 0$				
	$100 - 39$	$86 - 17$	$82 - 12$					
$98 - 32$	$95 - 10$	$99 - 1$				$16 - 8$	$100 - 82$	
$100 - 20$		$100 - 40$	$61 - 12$	$85 - 46$	$66 - 9$	$99 - 72$	$33 - 10$	$12 - 1$
		$60 - 10$			$25 - 15$	$20 - 5$	$30 - 17$	$18 - 9$
	$100 - 70$	$76 - 20$	$75 - 55$			$15 - 9$	$3 - 2$	
$30 - 0$	$12 - 6$	$44 - 15$	$99 - 69$	$93 - 63$				
$20 - 17$	$45 - 21$	$86 - 58$	$30 - 15$	$87 - 66$				
$18 - 9$	$55 - 30$	$10 - 4$	$67 - 37$	$19 - 1$				
	$50 - 38$	$50 - 20$	$30 - 20$					

Challenge: When you take away 1 from an even number, you always get an even number. Is this true? Prove it.

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			70 - 5	100 - 0				
	100 - 39	86 - 17	82 - 12					
98 - 32	95 - 10	99 - 1				16 - 8	100 - 82	
100 - 20		100 - 40	61 - 12	85 - 46	66 - 9	99 - 72	33 - 10	12 - 1
		60 - 10			25 - 15	20 - 5	30 - 17	18 - 9
	100 - 70	76 - 20	75 - 55			15 - 9	3 - 2	
30 - 0	12 - 6	44 - 15	99 - 69	93 - 63				
20 - 17	45 - 21	86 - 58	30 - 15	87 - 66				
18 - 9	55 - 30	10 - 4	67 - 37	19 - 1				
	50 - 38	50 - 20	30 - 20					

Challenge: When you take away 1 from an even number, you always get an even number. Is this true? Prove it.

No, you always get an odd number.

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black = 61 to 100

								$21 + 5$	
								$23 + 7$	$24 - 12$
							$83 - 24$	$55 + 1$	$100 - 70$
						$68 - 8$	$36 + 36$	$30 + 30$	$36 - 6$
					$87 - 39$	$76 + 11$	$27 + 27$	$64 - 10$	$75 - 50$
			$64 - 13$	$40 + 1$	$40 + 40$	$75 - 55$	$50 - 1$	$18 + 9$	
		$65 - 9$	$51 + 1$	$61 - 1$	$50 + 10$	$27 + 23$	$16 + 0$		
	$100 - 49$	$51 + 45$	$21 + 32$	$63 - 2$	$100 - 80$	$30 - 0$			
$15 + 12$	$75 - 36$	$67 + 10$	$43 - 4$	$45 + 15$	$13 + 5$				
	$15 + 15$	$99 - 92$	$10 + 10$	$66 - 37$					

Challenge: How many ways can you add the numbers 15 and 12? How many ways can you take them away? How are they the same or different? Explain your reasoning.

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green = 0 to 30

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							21 + 5	
							23 + 7	24 - 12
						83 - 24	55 + 1	100 - 70
					68 - 8	36 + 36	30 + 30	36 - 6
				87 - 39	76 + 11	27 + 27	64 - 10	75 - 50
			64 - 13	40 + 1	40 + 40	75 - 55	50 - 1	18 + 9
		65 - 9	51 + 1	61 - 1	50 + 10	27 + 23	16 + 0	
	100 - 49	51 + 45	21 + 32	63 - 2	100 - 80	30 - 0		
15 + 12	75 - 36	67 + 10	43 - 4	45 + 15	13 + 5			
	15 + 15	99 - 92	10 + 10	66 - 37				

Challenge: How many ways can you add the numbers 15 and 12? How many ways can you take them away? How are they the same or different? Explain your reasoning.

15 + 12 = 27, 12 + 15 = 27, 15 - 12 = 3.

You cannot take 15 from 12 as 12 is too small.