

Emoji Addition and Subtraction Facts up to 10

Solve the calculations to reveal the hidden picture.

Each answer has a special colour:

Yellow:

0, 2, 4, 6, 8, 10

Black:

1, 3, 5, 7, 9

		$2 + 4$	$6 + 4$	$3 + 3$	$0 + 8$	$3 + 7$		
	$4 + 0$	$1 + 1$	$3 + 5$	$4 + 4$	$2 + 8$	$0 + 0$	$1 + 9$	
$0 + 1$	$3 + 2$	$3 + 0$	$1 + 6$	$1 + 0$	$2 + 3$	$9 + 0$	$0 + 3$	$6 + 1$
$1 + 1$	$2 + 1$	$2 + 5$	$1 + 4$	$0 + 10$	$1 + 2$	$4 + 1$	$3 + 6$	$5 + 1$
$1 + 5$	$10 + 0$	$5 + 4$	$1 + 8$	$3 + 7$	$0 + 5$	$2 + 7$	$3 + 3$	$6 + 2$
$1 + 9$	$5 + 5$	$5 + 1$	$2 + 2$	$7 + 3$	$5 + 3$	$2 + 8$	$1 + 3$	$4 + 6$
$2 + 4$	$4 + 3$	$9 + 1$	$3 + 5$	$0 + 6$	$4 + 4$	$2 + 6$	$0 + 9$	$0 + 2$
$1 + 7$	$0 + 4$	$8 + 1$	$9 + 1$	$6 + 4$	$4 + 0$	$5 + 2$	$4 + 2$	$6 + 0$
	$7 + 3$	$4 + 2$	$6 + 3$	$3 + 4$	$7 + 2$	$8 + 2$	$1 + 1$	
		$5 + 5$	$2 + 0$	$5 + 5$	$3 + 1$	$3 + 3$		

Challenge: Zayn says that $4 + 6$ is the same as $6 + 4$. Is he correct?
Explain your reasoning.

Emoji Addition and Subtraction Facts up to 10 **Answers**

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Black:

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		2 + 4	6 + 4	3 + 3	0 + 8	3 + 7		
	4 + 0	1 + 1	3 + 5	4 + 4	2 + 8	0 + 0	1 + 9	
0 + 1	3 + 2	3 + 0	1 + 6	1 + 0	2 + 3	9 + 0	0 + 3	6 + 1
1 + 1	2 + 1	2 + 5	1 + 4	0 + 10	1 + 2	4 + 1	3 + 6	5 + 1
1 + 5	10 + 0	5 + 4	1 + 8	3 + 7	0 + 5	2 + 7	3 + 3	6 + 2
1 + 9	5 + 5	5 + 1	2 + 2	7 + 3	5 + 3	2 + 8	1 + 3	4 + 6
2 + 4	4 + 3	9 + 1	3 + 5	0 + 6	4 + 4	2 + 6	0 + 9	0 + 2
1 + 7	0 + 4	8 + 1	9 + 1	6 + 4	4 + 0	5 + 2	4 + 2	6 + 0
	7 + 3	4 + 2	6 + 3	3 + 4	7 + 2	8 + 2	1 + 1	
		5 + 5	2 + 0	5 + 5	3 + 1	3 + 3		

He's correct because 4 ones and 6 ones is always equal to 10 and it doesn't matter which way round you add them.

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7, 9

		10 - 0	7 - 3	10 - 2	9 - 3	8 - 8		
	9 - 7	4 - 4	5 - 3	6 - 4	8 - 2	10 - 6	9 - 3	
7 - 3	5 - 5	10 - 9	8 - 0	6 - 6	1 - 1	10 - 7	10 - 0	9 - 3
8 - 0	3 - 2	3 - 3	5 - 4	10 - 8	9 - 6	8 - 4	9 - 8	10 - 6
6 - 2	5 - 3	2 - 0	7 - 5	8 - 0	10 - 2	0 - 0	7 - 7	1 - 1
6 - 0	4 - 4	3 - 1	9 - 1	10 - 4	7 - 1	10 - 8	8 - 6	4 - 2
3 - 3	7 - 6	9 - 5	9 - 9	6 - 0	3 - 1	2 - 2	6 - 5	9 - 5
10 - 4	5 - 1	7 - 2	7 - 7	5 - 1	9 - 9	10 - 5	10 - 3	4 - 0
	10 - 10	0 - 0	6 - 1	8 - 7	7 - 4	8 - 1	10 - 1	9 - 0
		4 - 0	8 - 8	2 - 0	4 - 2	10 - 6	9 - 2	7 - 0

Challenge: Millie says that if we subtract zero, the number stays the same.
Is she correct?

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1, 3, 5

Pink:

7, 9

		10 - 0	7 - 3	10 - 2	9 - 3	8 - 8		
	9 - 7	4 - 4	5 - 3	6 - 4	8 - 2	10 - 6	9 - 3	
7 - 3	5 - 5	10 - 9	8 - 0	6 - 6	1 - 1	10 - 7	10 - 0	9 - 3
8 - 0	3 - 2	3 - 3	5 - 4	10 - 8	9 - 6	8 - 4	9 - 8	10 - 6
6 - 2	5 - 3	2 - 0	7 - 5	8 - 0	10 - 2	0 - 0	7 - 7	1 - 1
6 - 0	4 - 4	3 - 1	9 - 1	10 - 4	7 - 1	10 - 8	8 - 6	4 - 2
3 - 3	7 - 6	9 - 5	9 - 9	6 - 0	3 - 1	2 - 2	6 - 5	9 - 5
10 - 4	5 - 1	7 - 2	7 - 7	5 - 1	9 - 9	10 - 5	10 - 3	4 - 0
	10 - 10	0 - 0	6 - 1	8 - 7	7 - 4	8 - 1	10 - 1	9 - 0
		4 - 0	8 - 8	2 - 0	4 - 2	10 - 6	9 - 2	7 - 0

Yes, she is correct because zero means nothing so nothing is being taken away or subtracted.

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		$6 + 0$	$8 - 6$	$5 + 0$	$9 - 3$	$1 + 5$		
	$10 - 4$	$9 - 5$	$2 + 4$	$6 - 2$	$0 + 4$	$10 - 6$	$0 + 6$	
$0 + 3$	$1 + 3$	$10 - 3$	$5 - 0$	$7 - 1$				$4 + 0$
$8 - 2$	$4 + 4$	$8 - 4$	$7 + 1$	$10 - 9$		$10 - 2$		$4 - 0$
$4 + 1$	$3 - 0$	$3 + 3$	$1 + 4$	$0 + 2$				$3 + 1$
$0 + 5$	$2 + 2$	$5 - 1$	$2 + 0$	$10 - 8$	$7 - 2$	$4 + 2$	$7 - 3$	$6 - 4$
$5 + 1$	$5 + 3$	$9 - 1$	$10 - 1$	$2 + 7$	$5 + 5$	$3 + 4$	$2 + 5$	$2 - 0$
$1 - 0$	$6 - 1$	$1 + 6$	$6 + 3$	$10 - 0$	$6 + 4$	$9 - 2$	$2 + 3$	$10 - 5$
	$3 + 0$	$3 + 2$	$1 + 9$	$7 + 3$	$7 + 2$	$8 - 2$	$10 - 5$	
		$9 - 4$	$7 - 6$	$5 + 4$	$0 + 1$	$8 - 3$		

Challenge: Write down all the number bonds to ten. Can you write the subtraction calculations, too? $1 + 9 = 10$, $9 + 1 = 10$, $10 - 9 = 1$, $10 - 1 = 9$.

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Yellow:

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7, 8

Pink:

9, 10

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

2 + 8 = 10, 8 + 2 = 10, 10 - 8 = 2, 10 - 2 = 8; 3 + 7 = 10, 7 + 3 = 10, 10 - 3 = 7, 10 - 7 = 3; 4 + 6 = 10, 6 + 4 = 10, 10 - 6 = 4, 10 - 4 = 6; 5 + 5 = 10, 10 - 5 = 10