

Pirate Addition and Subtraction Facts up to 20 Mosaic

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

Red: 5	Brown: 6	Blue: 10	Grey: 11	Skin Tone (your choice): 13	Black: 20
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		$20 + 0$	$19 + 1$	$18 + 2$	$17 + 3$	$16 + 4$		
	$15 + 5$	$14 + 6$	$13 + 7$	$12 + 8$	$11 + 9$	$10 + 10$	$9 + 11$	
$8 + 12$	$7 + 13$	$6 + 14$	$5 + 15$	$4 + 16$	$3 + 17$	$2 + 18$	$1 + 19$	$0 + 20$
		$10 + 3$	$9 + 4$	$4 + 9$	$3 + 10$	$6 + 7$		
	$11 + 2$	$13 + 0$	$5 + 5$	$0 + 13$	$10 + 10$	$2 + 11$	$10 + 3$	
	$3 + 3$	$7 + 6$	$8 + 5$	$6 + 7$	$5 + 8$	$1 + 12$	$5 + 1$	
	$4 + 2$	$12 + 1$	$3 + 2$	$5 + 0$	$2 + 3$	$7 + 6$	$3 + 3$	
		$6 + 0$	$5 + 1$	$2 + 4$	$1 + 5$	$0 + 6$		
	$10 + 0$	$7 + 3$	$11 + 0$	$9 + 2$	$7 + 4$	$5 + 5$	$1 + 9$	
$9 + 1$	$6 + 4$	$8 + 2$	$10 + 1$	$8 + 3$	$6 + 5$	$0 + 10$	$4 + 6$	$8 + 2$

Challenge: Sam says ' $13 + 6 = 20$ '. Is he right? Prove it using equipment.

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

Brown: 6, 7, 8 and 9	Grey: 16, 17, 18 and 19
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		20 - 1	19 - 1	20 - 3				
		20 - 2		19 - 0				
		18 - 0		18 - 1				
				19 - 2				
				20 - 4				
			19 - 3	18 - 2	17 - 1			
		10 - 1	9 - 1	18 - 10	19 - 10	16 - 8		
		10 - 4	17 - 10	19 - 13	7 - 1	14 - 7		
		20 - 13	16 - 10	20 - 12	8 - 1	12 - 6		
		20 - 14	18 - 12	20 - 11	6 - 0	15 - 7		

Challenge: Sam says ' $20 - 7 = 13$ '. Is he right? Prove it using equipment.

Pirate Addition and Subtraction Facts up to 20 Mosaic

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

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

Challenge: Which calculation is the odd one out? Explain your reasoning
 $20 - 3$, $19 - 2$, $18 - 5$, $18 - 1$

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

Red: 5	Brown: 6	Blue: 10	Grey: 11	Skin Tone (your choice): 13	Black: 20
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		20 + 0	19 + 1	18 + 2	17 + 3	16 + 4		
	15 + 5	14 + 6	13 + 7	12 + 8	11 + 9	10 + 10	9 + 11	
8 + 12	7 + 13	6 + 14	5 + 15	4 + 16	3 + 17	2 + 18	1 + 19	0 + 20
		10 + 3	9 + 4	4 + 9	3 + 10	6 + 7		
	11 + 2	13 + 0	5 + 5	0 + 13	10 + 10	2 + 11	10 + 3	
	3 + 3	7 + 6	8 + 5	6 + 7	5 + 8	1 + 12	5 + 1	
	4 + 2	12 + 1	3 + 2	5 + 0	2 + 3	7 + 6	3 + 3	
		6 + 0	5 + 1	2 + 4	1 + 5	0 + 6		
	10 + 0	7 + 3	11 + 0	9 + 2	7 + 4	5 + 5	1 + 9	
9 + 1	6 + 4	8 + 2	10 + 1	8 + 3	6 + 5	0 + 10	4 + 6	8 + 2

Challenge: Sam says ' $13 + 6 = 20$ '. Is he right? Prove it using equipment.

No $13 + 6 = 19$.

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Brown: 6, 7, 8 and 9	Grey: 16, 17, 18 and 19
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		20 - 1	19 - 1	20 - 3				
		20 - 2		19 - 0				
		18 - 0		18 - 1				
				19 - 2				
				20 - 4				
			19 - 3	18 - 2	17 - 1			
		10 - 1	9 - 1	18 - 10	19 - 10	16 - 8		
		10 - 4	17 - 10	19 - 13	7 - 1	14 - 7		
		20 - 13	16 - 10	20 - 12	8 - 1	12 - 6		
		20 - 14	18 - 12	20 - 11	6 - 0	15 - 7		

Challenge: Sam says ' $20 - 7 = 13$ '. Is he right? Prove it using equipment.

Yes $20 - 7 = 13$

Pirate Addition and Subtraction Facts up to 20 Mosaic Answers

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

Challenge: Which calculation is the odd one out? Explain your reasoning 20 - 3, 19 - 2, 18 - 5, 18 - 1
18 - 5 is the odd one out as all the other's equal 17.