St. George's Day Mental Calculations Maths Mosaic

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

Red: 0 to 20   **Grey:** 21 to 40   **Blue:** 41 to 90

50 - 10			66 - 6	50 + 10	57 + 3	48 - 2	70 - 10	51 - 1
16 + 6				15 + 5		55 + 5	59 - 9	43 + 0
14 + 7				20 - 10				58 + 2
30 - 9	19 - 9	13 + 3		16 + 0				
12 + 10			12 + 8	11 + 10	24 - 4			
20 + 10				10 + 2		17 + 3		
30 - 5				14 + 1			30 - 10	25 - 10
24 + 8	44 + 4	41 + 1		15 + 0				
35 + 5	42 + 7	56 + 0	62 + 10	69 + 1	65 + 9			
40 - 1	68 - 10	67 - 9	60 - 10	77 + 7	60 + 10	64 - 4	75 + 5	

Challenge question: The calculation 27 + 9 = would be coloured blue. Is this correct? Explain your reasoning.

St. George's Day Mental Calculations Maths Mosaic **Answers**

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

Red: 0 to 20   **Grey:** 21 to 40   **Blue:** 41 to 90

50 - 10			66 - 6	50 + 10	57 + 3	48 - 2	70 - 10	51 - 1
16 + 6				15 + 5		55 + 5	59 - 9	43 + 0
14 + 7				20 - 10				58 + 2
30 - 9	19 - 9	13 + 3		16 + 0				
12 + 10			12 + 8	11 + 10	24 - 4			
20 + 10				10 + 2		17 + 3		
30 - 5				14 + 1			30 - 10	25 - 10
24 + 8	44 + 4	41 + 1		15 + 0				
35 + 5	42 + 7	56 + 0	62 + 10	69 + 1	65 + 9			
40 - 1	68 - 10	67 - 9	60 - 10	77 + 7	60 + 10	64 - 4	75 + 5	

Challenge question: The calculation 27 + 9 = would be coloured blue. Is this correct? Explain your reasoning.

Answer: No, 27 + 9 = 36 so it would be coloured grey.

St. George's Day Mental Calculations Maths Mosaic

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

Grey: 0 to 10	Red: 11 to 20	Blue: 21 to 30	Brown: 31 to 40	Skin tone: 41 to 50	Green: 51 to 60

	58 - 51			26 + 14				
	91 - 85		21 + 17	78 - 43	19 + 19			
	30 - 20	95 - 58	89 - 41	78 - 30	25 + 22	85 - 51		
	26 - 19		65 - 38	15 + 32	17 + 12			
	20 - 19	16 + 26	97 - 54	90 - 43	20 + 30	86 - 37		
	64 - 58		17 + 32	10 + 10	13 + 34			
	99 - 90		78 - 25	91 - 35	69 - 11			
30 - 20	76 - 67	21 - 19	32 + 22	18 + 39	53 - 43	10 + 10	67 - 60	
	20 - 18	80 - 33	89 - 37	97 - 41	27 - 11	34 - 20	80 - 67	
	22 - 20		90 - 30	37 + 21	98 - 89	60 - 42	36 - 27	

Challenge question: Create a balanced calculation that would need to be coloured green, e.g. 12 + 5 = 21 - 4.

St. George's Day Mental Calculations Maths Mosaic **Answers**

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

Grey: 0 to 10	**Red:** 11 to 20	**Blue:** 21 to 30	**Brown:** 31 to 40	**Skin tone:** 41 to 50	**Green:** 51 to 60

	58 - 51			26 + 14				
	91 - 85		21 + 17	78 - 43	19 + 19			
	30 - 20	95 - 58	89 - 41	78 - 30	25 + 22	85 - 51		
	26 - 19		65 - 38	15 + 32	17 + 12			
	20 - 19	16 + 26	97 - 54	90 - 43	20 + 30	86 - 37		
	64 - 58		17 + 32	10 + 10	13 + 34			
	99 - 90		78 - 25	91 - 35	69 - 11			
30 - 20	76 - 67	21 - 19	32 + 22	18 + 39	53 - 43	10 + 10	67 - 60	
	20 - 18	80 - 33	89 - 37	97 - 41	27 - 11	34 - 20	80 - 67	
	22 - 20		90 - 30	37 + 21	98 - 89	60 - 42	36 - 27	

Challenge question: Create a balanced calculation that would need to be coloured green, e.g. 12 + 5 = 21 - 4.

Various answers.

St. George's Day Mental Calculations Maths Mosaic

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

Green: 0 to 10   **Black:** 11 to 20   **Red:** 21 to 30

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

Challenge question: The highest total you can make by adding 3 single-digit numbers is 30. Is this true? Explain your reasoning.

St. George's Day Mental Calculations Maths Mosaic **Answers**

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

Green: 0 to 10   **Black:** 11 to 20   **Red:** 21 to 30

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

Challenge question: The highest total you can make by adding 3 single-digit numbers is 30. Is this true? Explain your reasoning.

Answer: No, the highest single-digit number is 9. 9 + 9 + 9 = 27.