

Christmas Mental Calculations Mosaic

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

Red

1 to 15

Yellow

16 to 30

Brown

31 to 35

Green

36 to 50

				$20 - 3$				
				$32 + 7$				
			$18 - 8$	$48 - 6$	$20 - 7$			
		$15 + 5$	$39 - 3$	$19 + 6$	$31 + 8$	$15 + 10$		
		$33 + 5$	$67 - 20$	$50 - 5$	$42 + 5$	$47 - 10$		
	$11 + 2$	$52 - 10$	$20 - 6$	$21 + 20$	$10 + 2$	$31 + 10$	$13 + 2$	
	$24 + 20$	$18 + 10$	$41 + 4$	$27 - 10$	$40 + 8$	$18 + 2$	$36 + 4$	
$35 + 10$	$41 + 6$	$40 + 8$	$47 - 2$	$50 - 5$	$44 + 3$	$12 + 30$	$50 - 1$	$42 + 6$
$25 + 4$	$32 + 5$	$19 - 7$	$48 - 7$	$16 + 3$	$18 + 20$	$10 + 4$	$39 + 1$	$35 - 5$
				$25 + 10$				

Challenge: Write the inverse calculations for the number sentences.

$$22 + 6 = 28$$

$$34 + 20 = 54$$

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1 to 15	16 to 30	31 to 35	36 to 50

				$20 - 3$					
				$32 + 7$					
			$18 - 8$	$48 - 6$	$20 - 7$				
		$15 + 5$	$39 - 3$	$19 + 6$	$31 + 8$	$15 + 10$			
		$33 + 5$	$67 - 20$	$50 - 5$	$42 + 5$	$47 - 10$			
	$11 + 2$	$52 - 10$	$20 - 6$	$21 + 20$	$10 + 2$	$31 + 10$	$13 + 2$		
	$24 + 20$	$18 + 10$	$41 + 4$	$27 - 10$	$40 + 8$	$18 + 2$	$36 + 4$		
$35 + 10$	$41 + 6$	$40 + 8$	$47 - 2$	$50 - 5$	$44 + 3$	$12 + 30$	$50 - 1$	$42 + 6$	
$25 + 4$	$32 + 5$	$19 - 7$	$48 - 7$	$16 + 3$	$18 + 20$	$10 + 4$	$39 + 1$	$35 - 5$	
				$25 + 10$					

Challenge: Write the inverse calculations for the number sentences.

$22 + 6 = 28$ $28 - 6 = 22$, $28 - 22 = 6$

$34 + 20 = 54$ $54 - 20 = 34$, $54 - 34 = 20$

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Red **Yellow** **Green**
20 to 30 31 to 40 41 to 60

$12 + 12$	$45 - 21$	$19 + 11$						
$21 + 12$	$54 - 22$	$22 + 14$						
$14 + 11$	$58 - 36$	$42 - 21$						
$28 + 11$	$66 - 33$	$52 - 12$						
$48 - 27$	$15 + 14$	$12 + 11$						
$74 - 41$	$24 + 16$	$67 - 32$					$25 + 25$	
$31 + 11$	$64 - 22$	$28 + 21$	$68 - 27$				$24 + 21$	$57 - 11$
$23 + 24$	$28 + 13$	$66 - 13$	$77 - 36$	$79 - 27$	$21 + 16$			$74 - 21$
$32 + 28$	$31 + 27$	$36 + 12$	$68 - 12$	$31 + 24$	$34 + 16$	$60 - 15$	$27 + 22$	$31 + 18$
$32 + 17$	$34 + 22$	$42 + 11$	$74 - 23$	$26 + 24$	$59 - 11$	$32 + 15$	$68 - 16$	

Challenge: Are these number sentences true or false?

$26 - 11 = 17$

$24 + 22 = 47$

$32 + 15 = 47$

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Red **Yellow** **Green**
20 to 30 31 to 40 41 to 60

$12 + 12$	$45 - 21$	$19 + 11$						
$21 + 12$	$54 - 22$	$22 + 14$						
$14 + 11$	$58 - 36$	$42 - 21$						
$28 + 11$	$66 - 33$	$52 - 12$						
$48 - 27$	$15 + 14$	$12 + 11$						
$74 - 41$	$24 + 16$	$67 - 32$					$25 + 25$	
$31 + 11$	$64 - 22$	$28 + 21$	$68 - 27$			$24 + 21$		$57 - 11$
$23 + 24$	$28 + 13$	$66 - 13$	$77 - 36$	$79 - 27$	$21 + 16$			$74 - 21$
$32 + 28$	$31 + 27$	$36 + 12$	$68 - 12$	$31 + 24$	$34 + 16$	$60 - 15$	$27 + 22$	$31 + 18$
$32 + 17$	$34 + 22$	$42 + 11$	$74 - 23$	$26 + 24$	$59 - 11$	$32 + 15$	$68 - 16$	

Challenge: Are these number sentences true or false?

$26 - 11 = 17$ **False**, $26 - 11 = 15$ $24 + 22 = 47$ **False**, $24 + 22 = 46$ $32 + 15 = 47$ **True**

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Yellow

0 to 5

Gold or Orange

6 to 15

Green

16 to 20

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

Challenge: Use $<$, $>$ or $=$ to compare these number sentences.

$3 + 3 + 4 \square 4 + 2 + 3$

$7 + 3 + 2 \square 8 + 2 + 6$

$5 + 5 + 7 \square 6 + 6 + 5$

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

Challenge: Use $<$, $>$ or $=$ to compare these number sentences.

$3 + 3 + 4 \boxed{>} 4 + 2 + 3$

$7 + 3 + 2 \boxed{<} 8 + 2 + 6$

$5 + 5 + 7 \boxed{=} 6 + 6 + 5$