

# The Great Fire of London Mosaic

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

**black** =  
0 – 9

**red** =  
10 – 12

**yellow** =  
14 – 18

**orange** =  
20 – 24

			$9 \times 2$	$7 \times 2$	$8 \times 2$			
		$7 \times 2$	$12 \times 2$	$22 \div 2$	$10 \times 2$	$9 \times 2$		
	$7 \times 2$	$6 \times 2$	$0 \times 2$	$16 \div 2$	$0 \times 2$	$22 \div 2$	$8 \times 2$	
$8 \times 2$	$10 \times 2$	$4 \times 2$	$6 \div 2$	$2 \times 2$	$14 \div 2$	$4 \times 2$	$11 \times 2$	$9 \times 2$
$11 \times 2$	$10 \div 2$	$0 \times 2$	$1 \times 2$	$4 \times 2$	$16 \div 2$	$18 \div 2$	$1 \times 2$	$10 \times 2$
$10 \times 2$	$12 \div 2$	$3 \times 2$	$2 \div 2$	$10 \div 2$	$10 \div 2$	$3 \times 2$	$2 \times 2$	$11 \times 2$
$12 \times 2$	$22 \div 2$	$14 \div 2$	$0 \div 2$	$4 \times 2$	$8 \div 2$	$4 \times 2$	$24 \div 2$	$12 \times 2$
$5 \times 2$	$24 \div 2$	$2 \div 2$	$4 \times 2$	$1 \times 2$	$8 \div 2$	$2 \times 2$	$6 \times 2$	$5 \times 2$
$5 \times 2$	$20 \div 2$	$16 \div 2$	$2 \times 2$	$3 \times 2$	$6 \div 2$	$4 \div 2$	$22 \div 2$	$24 \div 2$

**Challenge:**  $5 \times 2 = 2 + 2 + 2 + 2 + 2$  Prove it! Could you express this in another way?

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**orange =**  
20 – 24

			$9 \times 2$	$7 \times 2$	$8 \times 2$				
		$7 \times 2$	$12 \times 2$	$22 \div 2$	$10 \times 2$	$9 \times 2$			
	$7 \times 2$	$6 \times 2$	$0 \times 2$	$16 \div 2$	$0 \times 2$	$22 \div 2$	$8 \times 2$		
$8 \times 2$	$10 \times 2$	$4 \times 2$	$6 \div 2$	$2 \times 2$	$14 \div 2$	$4 \times 2$	$11 \times 2$	$9 \times 2$	
$11 \times 2$	$10 \div 2$	$0 \times 2$	$1 \times 2$	$4 \times 2$	$16 \div 2$	$18 \div 2$	$1 \times 2$	$10 \times 2$	
$10 \times 2$	$12 \div 2$	$3 \times 2$	$2 \div 2$	$10 \div 2$	$10 \div 2$	$3 \times 2$	$2 \times 2$	$11 \times 2$	
$12 \times 2$	$22 \div 2$	$14 \div 2$	$0 \div 2$	$4 \times 2$	$8 \div 2$	$4 \times 2$	$24 \div 2$	$12 \times 2$	
$5 \times 2$	$24 \div 2$	$2 \div 2$	$4 \times 2$	$1 \times 2$	$8 \div 2$	$2 \times 2$	$6 \times 2$	$5 \times 2$	
$5 \times 2$	$20 \div 2$	$16 \div 2$	$2 \times 2$	$3 \times 2$	$6 \div 2$	$4 \div 2$	$22 \div 2$	$24 \div 2$	

**Challenge:**  $5 \times 2 = 2 + 2 + 2 + 2 + 2$  Prove it! Could you express this in another way? **Accept any correct expression. For example,  $5 \times 2 = 10$  and  $2 + 2 + 2 + 2 + 2 = 10$**

# The Great Fire of London Mosaic

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

**blue** =  
0 – 6

**grey** =  
7 – 34

**brown** =  
35 – 40

**black** =  
41 – 60

		$60 \div 5$	$3 \times 5$	$50 \div 5$	$3 \times 5$	$55 \div 5$		
	$4 \times 5$	$0 \times 5$	$0 \times 5$	$20 \div 5$	$10 \div 5$	$15 \div 5$	$4 \times 5$	
$12 \times 5$	$20 \div 5$	$25 \div 5$	$1 \times 5$	$1 \times 5$	$30 \div 5$	$5 \div 5$	$1 \times 5$	$12 \times 5$
$11 \times 5$	$3 \times 5$	$1 \times 5$	$25 \div 5$	$15 \div 5$	$30 \div 5$	$0 \div 5$	$3 \times 5$	$11 \times 5$
$11 \times 5$	$60 \div 5$	$6 \times 5$	$45 \div 5$	$40 \div 5$	$35 \div 5$	$5 \times 5$	$50 \div 5$	$10 \times 5$
	$10 \times 5$	$5 \times 5$	$6 \times 5$	$50 \div 5$	$3 \times 5$	$4 \times 5$	$9 \times 5$	
	$55 \div 5$	$9 \times 5$	$4 \times 5$	$40 \div 5$	$6 \times 5$	$9 \times 5$	$45 \div 5$	
	$4 \times 5$	$5 \times 5$	$12 \times 5$	$9 \times 5$	$11 \times 5$	$6 \times 5$	$35 \div 5$	
$7 \times 5$	$45 \div 5$	$60 \div 5$	$35 \div 5$	$4 \times 5$	$4 \times 5$	$60 \div 5$	$6 \times 5$	$7 \times 5$
$7 \times 5$	$8 \times 5$	$40 \div 5$	$4 \times 5$	$55 \div 5$	$35 \div 5$	$40 \div 5$	$7 \times 5$	$8 \times 5$

**Challenge:**  $5 \quad \_\_\_ \quad 6 = \_\_\_$  What could the missing symbol be? How do you know? Can you prove it?

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

**blue =**  
0 – 6

**grey =**  
7 – 34

**brown =**  
35 – 40

**black =**  
41 – 60

		60 ÷ 5	3 × 5	50 ÷ 5	3 × 5	55 ÷ 5		
	4 × 5	0 × 5	0 × 5	20 ÷ 5	10 ÷ 5	15 ÷ 5	4 × 5	
12 × 5	20 ÷ 5	25 ÷ 5	1 × 5	1 × 5	30 ÷ 5	5 ÷ 5	1 × 5	12 × 5
11 × 5	3 × 5	1 × 5	25 ÷ 5	15 ÷ 5	30 ÷ 5	0 ÷ 5	3 × 5	11 × 5
11 × 5	60 ÷ 5	6 × 5	45 ÷ 5	40 ÷ 5	35 ÷ 5	5 × 5	50 ÷ 5	10 × 5
	10 × 5	5 × 5	6 × 5	50 ÷ 5	3 × 5	4 × 5	9 × 5	
	55 ÷ 5	9 × 5	4 × 5	40 ÷ 5	6 × 5	9 × 5	45 ÷ 5	
	4 × 5	5 × 5	12 × 5	9 × 5	11 × 5	6 × 5	35 ÷ 5	
7 × 5	45 ÷ 5	60 ÷ 5	35 ÷ 5	4 × 5	4 × 5	60 ÷ 5	6 × 5	7 × 5
7 × 5	8 × 5	40 ÷ 5	4 × 5	55 ÷ 5	35 ÷ 5	40 ÷ 5	7 × 5	8 × 5

**Challenge:** 5 \_\_\_\_ 6 = \_\_\_\_ What could the missing symbol be? How do you know? Can you prove it? **The missing symbol could only be × or + because you cannot subtract or divide 5 from or by 6 and get a whole number.**

# The Great Fire of London Mosaic

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

**black** = 0 – 50

**orange** = 60 – 120

$1 \times 10$		$6 \times 10$				$8 \times 10$			$10 \times 10$	
$90 \div 10$	$7 \times 10$		$30 \div 10$	$1 \times 10$	$120 \div 10$		$2 \times 10$	$90 \div 10$	$100 \div 10$	$12 \times 10$
$1 \times 10$			$0 \times 10$		$5 \times 10$		$4 \times 10$		$3 \times 10$	
$80 \div 10$	$60 \div 10$		$110 \div 10$	$40 \div 10$	$1 \times 10$	$6 \times 10$	$50 \div 10$		$2 \times 10$	
		$70 \div 10$			$9 \times 10$			$9 \times 10$		
	$8 \times 10$	$3 \times 10$		$12 \times 10$			$11 \times 10$			$11 \times 10$
$3 \times 10$	$60 \div 10$	$110 \div 10$	$7 \times 10$	$5 \times 10$	$40 \div 10$	$10 \div 10$	$10 \times 10$	$20 \div 10$	$60 \div 10$	$10 \div 10$
$50 \div 10$		$4 \times 10$		$80 \div 10$		$110 \div 10$		$100 \div 10$		$2 \times 10$
$4 \times 10$	$20 \div 10$	$70 \div 10$		$30 \div 10$	$90 \div 10$	$5 \times 10$		$10 \div 10$		$120 \div 10$

**Challenge:** How far can you count in tens? What do all of the numbers have in common? Can you write a rule?

# The Great Fire of London Mosaic

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

black = 0 – 50

orange = 60 – 120

$1 \times 10$		$6 \times 10$				$8 \times 10$			$10 \times 10$	
$90 \div 10$	$7 \times 10$		$30 \div 10$	$1 \times 10$	$120 \div 10$		$2 \times 10$	$90 \div 10$	$100 \div 10$	$12 \times 10$
$1 \times 10$			$0 \times 10$		$5 \times 10$		$4 \times 10$		$3 \times 10$	
$80 \div 10$	$60 \div 10$		$110 \div 10$	$40 \div 10$	$1 \times 10$	$6 \times 10$	$50 \div 10$		$2 \times 10$	
		$70 \div 10$			$9 \times 10$			$9 \times 10$		
	$8 \times 10$	$3 \times 10$		$12 \times 10$			$11 \times 10$			$11 \times 10$
$3 \times 10$	$60 \div 10$	$110 \div 10$	$7 \times 10$	$5 \times 10$	$40 \div 10$	$10 \div 10$	$10 \times 10$	$20 \div 10$	$60 \div 10$	$10 \div 10$
$50 \div 10$		$4 \times 10$		$80 \div 10$		$110 \div 10$		$100 \div 10$		$2 \times 10$
$4 \times 10$	$20 \div 10$	$70 \div 10$		$30 \div 10$	$90 \div 10$	$5 \times 10$		$10 \div 10$		$120 \div 10$

**Challenge:** How far can you count in tens? What do all of the numbers have in common? Can you write a rule? **Accept any correct rule. For example, all of the numbers have 0 in the ones.**

# The Great Fire of London Mosaic

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

**black** = 0 – 45

**orange** = 50 – 120

$2 \times 8$		$20 \div 2$	$14 \div 2$	$100 \div 10$				
$10 \div 5$	$7 \times 10$	$10 \times 2$				$12 \times 10$		$11 \times 10$
$30 \div 10$		$15 \div 5$	$16 \div 2$	$35 \div 5$		$12 \times 5$		
$9 \times 5$		$30 \div 10$	$12 \times 5$	$12 \times 2$		$11 \times 5$	$9 \times 10$	
$25 \div 5$	$5 \times 10$	$2 \times 4$	$6 \times 5$	$60 \div 5$			$12 \times 10$	
$8 \times 10$	$70 \div 10$	$90 \div 10$	$40 \div 5$		$22 \div 2$	$9 \times 2$	$8 \div 2$	
	$4 \times 5$		$11 \times 5$		$20 \div 10$	$7 \times 10$		
	$24 \div 2$	$18 \div 2$	$6 \times 2$		$10 \div 2$	$55 \div 5$	$20 \div 5$	
$8 \times 10$	$12 \div 2$		$50 \div 5$	$11 \times 10$	$10 \times 2$		$50 \div 10$	$10 \times 5$
	$30 \div 5$	$40 \div 10$	$4 \times 10$		$60 \div 10$	$3 \times 10$	$2 \times 2$	

**Challenge:**  $\_\_\_\_ \times \_\_\_\_ = 20$  What could the missing numbers be?

Have you found all the possibilities?

# The Great Fire of London Mosaic

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

black = 0 – 45

orange = 50 – 120

$2 \times 8$		$20 \div 2$	$14 \div 2$	$100 \div 10$				
$10 \div 5$	$7 \times 10$	$10 \times 2$				$12 \times 10$		$11 \times 10$
$30 \div 10$		$15 \div 5$	$16 \div 2$	$35 \div 5$		$12 \times 5$		
$9 \times 5$		$30 \div 10$	$12 \times 5$	$12 \times 2$		$11 \times 5$	$9 \times 10$	
$25 \div 5$	$5 \times 10$	$2 \times 4$	$6 \times 5$	$60 \div 5$			$12 \times 10$	
$8 \times 10$	$70 \div 10$	$90 \div 10$	$40 \div 5$		$22 \div 2$	$9 \times 2$	$8 \div 2$	
	$4 \times 5$		$11 \times 5$		$20 \div 10$	$7 \times 10$		
	$24 \div 2$	$18 \div 2$	$6 \times 2$		$10 \div 2$	$55 \div 5$	$20 \div 5$	
$8 \times 10$	$12 \div 2$		$50 \div 5$	$11 \times 10$	$10 \times 2$		$50 \div 10$	$10 \times 5$
	$30 \div 5$	$40 \div 10$	$4 \times 10$		$60 \div 10$	$3 \times 10$	$2 \times 2$	

**Challenge:** \_\_\_\_  $\times$  \_\_\_\_ = 20 What could the missing numbers be?

Have you found all the possibilities?

**1  $\times$  20 = 20, 2  $\times$  10 = 20, 4  $\times$  5 = 20, 5  $\times$  4 = 20, 10  $\times$  2 = 20, 20  $\times$  1 = 20**