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 × 2	7 × 2	8 × 2			
	7 × 2	12 × 2	22 ÷ 2	10 × 2	9 × 2			
	7 × 2	6 × 2	0 × 2	16 ÷ 2	0 × 2	22 ÷ 2	8 × 2	
8 × 2	10 × 2	4 × 2	6 ÷ 2	2 × 2	14 ÷ 2	4 × 2	11 × 2	9 × 2
11 × 2	10 ÷ 2	0 × 2	1 × 2	4 × 2	16 ÷ 2	18 ÷ 2	1 × 2	10 × 2
10 × 2	12 ÷ 2	3 × 2	2 ÷ 2	10 ÷ 2	10 ÷ 2	3 × 2	2 × 2	11 × 2
12 × 2	22 ÷ 2	14 ÷ 2	0 ÷ 2	4 × 2	8 ÷ 2	4 × 2	24 ÷ 2	12 × 2
5 × 2	24 ÷ 2	2 ÷ 2	4 × 2	1 × 2	8 ÷ 2	2 × 2	6 × 2	5 × 2
5 × 2	20 ÷ 2	16 ÷ 2	2 × 2	3 × 2	6 ÷ 2	4 ÷ 2	22 ÷ 2	24 ÷ 2

Challenge: 5 × 2 = 2 + 2 + 2 + 2 + 2 Prove it! Could you express this in another way?

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 × 2	7 × 2	8 × 2		
		7 × 2	12 × 2	22 ÷ 2	10 × 2	9 × 2		
	7 × 2	6 × 2	0 × 2	16 ÷ 2	0 × 2	22 ÷ 2	8 × 2	
8 × 2	10 × 2	4 × 2	6 ÷ 2	2 × 2	14 ÷ 2	4 × 2	11 × 2	9 × 2
11 × 2	10 ÷ 2	0 × 2	1 × 2	4 × 2	16 ÷ 2	18 ÷ 2	1 × 2	10 × 2
10 × 2	12 ÷ 2	3 × 2	2 ÷ 2	10 ÷ 2	10 ÷ 2	3 × 2	2 × 2	11 × 2
12 × 2	22 ÷ 2	14 ÷ 2	0 ÷ 2	4 × 2	8 ÷ 2	4 × 2	24 ÷ 2	12 × 2
5 × 2	24 ÷ 2	2 ÷ 2	4 × 2	1 × 2	8 ÷ 2	2 × 2	6 × 2	5 × 2
5 × 2	20 ÷ 2	16 ÷ 2	2 × 2	3 × 2	6 ÷ 2	4 ÷ 2	22 ÷ 2	24 ÷ 2

Challenge: 5 × 2 = 2 + 2 + 2 + 2 + 2 Prove it! Could you express this in another way? **Accept any correct expression. For example, 5 × 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 ÷ 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 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 ÷ 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 × 10		6 × 10				8 × 10			10 × 10	
90 ÷ 10	7 × 10		30 ÷ 10	1 × 10	120 ÷10		2 × 10	90 ÷ 10	100 ÷ 10	12 × 10
1 × 10			0 × 10		5 × 10		4 × 10		3 × 10	
80 ÷ 10	60 ÷ 10		110 ÷ 10	40 ÷ 10	1 × 10	6 × 10	50 ÷ 10		2 × 10	
	70 ÷ 10				9 × 10			9 × 10		
	8 × 10	3 × 10		12 × 10			11 × 10			11 × 10
3 × 10	60 ÷ 10	110 ÷ 10	7 × 10	5 × 10	40 ÷ 10	10 ÷ 10	10 × 10	20 ÷ 10	60 ÷ 10	10 ÷ 10
50 ÷ 10		4 × 10		80 ÷ 10		110 ÷ 10		100 ÷ 10		2 × 10
4 × 10	20 ÷ 10	70 ÷ 10		30 ÷ 10	90 ÷ 10	5 × 10		10 ÷ 10		120 ÷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 × 10		6 × 10				8 × 10			10 × 10	
90 ÷ 10	7 × 10		30 ÷ 10	1 × 10	120 ÷10		2 × 10	90 ÷ 10	100 ÷ 10	12 × 10
1 × 10			0 × 10		5 × 10		4 × 10		3 × 10	
80 ÷ 10	60 ÷ 10		110 ÷ 10	40 ÷ 10	1 × 10	6 × 10	50 ÷ 10		2 × 10	
		70 ÷ 10			9 × 10			9 × 10		
	8 × 10	3 × 10		12 × 10			11 × 10			11 × 10
3 × 10	60 ÷ 10	110 ÷ 10	7 × 10	5 × 10	40 ÷ 10	10 ÷ 10	10 × 10	20 ÷ 10	60 ÷ 10	10 ÷ 10
50 ÷ 10		4 × 10		80 ÷ 10		110 ÷ 10		100 ÷ 10		2 × 10
4 × 10	20 ÷ 10	70 ÷ 10		30 ÷ 10	90 ÷ 10	5 × 10		10 ÷ 10		120 ÷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 × 8		20 ÷ 2	14 ÷ 2	100 ÷ 10				
10 ÷ 5	7 × 10	10 × 2				12 × 10		11 × 10
30 ÷ 10		15 ÷ 5	16 ÷ 2	35 ÷ 5		12 × 5		
9 × 5		30 ÷ 10	12 × 5	12 × 2		11 × 5	9 × 10	
25 ÷ 5	5 × 10	2 × 4	6 × 5	60 ÷ 5			12 × 10	
8 × 10	70 ÷ 10	90 ÷ 10	40 ÷ 5		22 ÷ 2	9 × 2	8 ÷ 2	
	4 × 5		11 × 5		20 ÷ 10	7 × 10		
	24 ÷ 2	18 ÷ 2	6 × 2		10 ÷ 2	55 ÷ 5	20 ÷ 5	
8 × 10	12 ÷ 2		50 ÷ 5	11 × 10	10 × 2		50 ÷ 10	10 × 5
	30 ÷ 5	40 ÷ 10	4 × 10		60 ÷ 10	3 × 10	2 × 2	

Challenge: _____ × _____ = 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 × 8		20 ÷ 2	14 ÷ 2	100 ÷ 10					
10 ÷ 5	7 × 10	10 × 2				12 × 10		11 × 10	
30 ÷ 10		15 ÷ 5	16 ÷ 2	35 ÷ 5		12 × 5			
9 × 5		30 ÷ 10	12 × 5	12 × 2		11 × 5	9 × 10		
25 ÷ 5	5 × 10	2 × 4	6 × 5	60 ÷ 5			12 × 10		
8 × 10	70 ÷ 10	90 ÷ 10	40 ÷ 5		22 ÷ 2	9 × 2	8 ÷ 2		
	4 × 5		11 × 5		20 ÷ 10	7 × 10			
	24 ÷ 2	18 ÷ 2	6 × 2		10 ÷ 2	55 ÷ 5	20 ÷ 5		
8 × 10	12 ÷ 2		50 ÷ 5	11 × 10	10 × 2		50 ÷ 10	10 × 5	
	30 ÷ 5	40 ÷ 10	4 × 10		60 ÷ 10	3 × 10	2 × 2		

Challenge: _____ × _____ = 20 What could the missing numbers be?
Have you found all the possibilities?
1 × 20 = 20, 2 × 10 = 20, 4 × 5 = 20, 5 × 4 = 20, 10 × 2 = 20, 20 × 1 = 20