Christmas Maths Mosaic

Multiplication 3× Table

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

0, 3, 6 = black

9, 12, 15 = blue

18, 21 = orange

24, 27 = red

30, 33, 36 = white

3 × 3	3 × 4	0 × 3	3 × 2	1 × 3	2 × 3	3 × 5	10 × 3	3 × 4
11 × 3	3 × 4	8 × 3	3 × 9	3 × 8	9 × 3	3 × 3	4 × 3	3 × 5
5 × 3	1 × 3	3 × 2	3 × 0	2 × 3	0 × 3	3 × 1	3 × 3	5 × 3
3 × 5	3 × 3	12 × 3	3 × 10	3 × 12	3 × 11	5 × 3	3 × 4	10 × 3
4 × 3	3 × 12	3 × 0	12 × 3	11 × 3	3 × 2	3 × 12	3 × 5	3 × 3
3 × 3	11 × 3	10 × 3	12 × 3	3 × 7	6 × 3	7 × 3	3 × 6	3 × 4
5 × 3	10 × 3	1 × 3	3 × 11	10 × 3	3 × 0	11 × 3	3 × 3	4 × 3
4 × 3	12 × 3	3 × 12	0 × 3	2 × 3	12 × 3	10 × 3	3 × 5	11 × 3
10 × 3	3 × 3	10 × 3	3 × 11	11 × 3	12 × 3	3 × 4	4 × 3	5 × 3
3 × 5	11 × 3	3 × 12	11 × 3	3 × 12	10 × 3	12 × 3	5 × 3	3 × 3

Challenge: Which calculations have an answer ending in 6?

Christmas Maths Mosaic **Answers**

Multiplication 3× Table

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

0, 3, 6 = black

9, 12, 15 = blue

18, 21 = orange

24, 27 = red

30, 33, 36 = white

3 × 3	3 × 4	0 × 3	3 × 2	1 × 3	2 × 3	3 × 5	10 × 3	3 × 4
11 × 3	3 × 4	8 × 3	3 × 9	3 × 8	9 × 3	3 × 3	4 × 3	3 × 5
5 × 3	1 × 3	3 × 2	3 × 0	2 × 3	0 × 3	3 × 1	3 × 3	5 × 3
3 × 5	3 × 3	12 × 3	3 × 10	3 × 12	3 × 11	5 × 3	3 × 4	10 × 3
4 × 3	3 × 12	3 × 0	12 × 3	11 × 3	3 × 2	3 × 12	3 × 5	3 × 3
3 × 3	11 × 3	10 × 3	12 × 3	3 × 7	6 × 3	7 × 3	3 × 6	3 × 4
5 × 3	10 × 3	1 × 3	3 × 11	10 × 3	3 × 0	11 × 3	3 × 3	4 × 3
4 × 3	12 × 3	3 × 12	0 × 3	2 × 3	12 × 3	10 × 3	3 × 5	11 × 3
10 × 3	3 × 3	10 × 3	3 × 11	11 × 3	12 × 3	3 × 4	4 × 3	5 × 3
3 × 5	11 × 3	3 × 12	11 × 3	3 × 12	10 × 3	12 × 3	5 × 3	3 × 3

Challenge: Which calculations have an answer ending in 6?

2 × 3, 3 × 2, 12 × 3 and 3 × 12

Christmas Maths Mosaic

Multiplication 4× Table

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

0, 4, 8, 12 = brown

16 = green

20, 24 = black

28 = red

32, 36, 40, 44 = blue

48 = white

12 × 4	4 × 8	4 × 5	4 × 9	4 × 6	4 × 11	8 × 4	4 × 12	4 × 9
10 × 4	5 × 4	6 × 4	4 × 12	5 × 4	4 × 5	10 × 4	4 × 11	4 × 8
4 × 11	8 × 4	4 × 6	4 × 8	6 × 4	11 × 4	4 × 9	8 × 4	4 × 11
4 × 12	11 × 4	2 × 4	4 × 3	4 × 0	8 × 4	12 × 4	4 × 11	9 × 4
4 × 9	4 × 1	4 × 6	4 × 0	2 × 4	4 × 3	4 × 8	4 × 10	8 × 4
4 × 7	4 × 3	4 × 2	4 × 1	4 × 2	4 × 0	8 × 4	4 × 9	4 × 12
10 × 4	3 × 4	4 × 2	0 × 4	4 × 3	10 × 4	4 × 11	4 × 8	4 × 9
4 × 8	4 × 11	10 × 4	2 × 4	4 × 0	4 × 4	4 × 8	12 × 4	10 × 4
4 × 11	12 × 4	4 × 4	4 × 3	4 × 4	4 × 2	1 × 4	2 × 4	4 × 1
4 × 8	4 × 9	11 × 4	4 × 4	4 × 1	2 × 4	4 × 0	4 × 2	4 × 3

Challenge: Use the symbols <, > and = to complete these number sentences.

3 × 6 ☐ 7 × 3

3 × 11 ☐ 8 × 3

3 × 4 ☐ 4 × 3

Christmas Maths Mosaic **Answers**

Multiplication 4× Table

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

0, 4, 8, 12 = brown

16 = green

20, 24 = black

28 = red

32, 36, 40, 44 = blue

48 = white

12 × 4	4 × 8	4 × 5	4 × 9	4 × 6	4 × 11	8 × 4	4 × 12	4 × 9
10 × 4	5 × 4	6 × 4	4 × 12	5 × 4	4 × 5	10 × 4	4 × 11	4 × 8
4 × 11	8 × 4	4 × 6	4 × 8	6 × 4	11 × 4	4 × 9	8 × 4	4 × 11
4 × 12	11 × 4	2 × 4	4 × 3	4 × 0	8 × 4	12 × 4	4 × 11	9 × 4
4 × 9	4 × 1	4 × 6	4 × 0	2 × 4	4 × 3	4 × 8	4 × 10	8 × 4
4 × 7	4 × 3	4 × 2	4 × 1	4 × 2	4 × 0	8 × 4	4 × 9	4 × 12
10 × 4	3 × 4	4 × 2	0 × 4	4 × 3	10 × 4	4 × 11	4 × 8	4 × 9
4 × 8	4 × 11	10 × 4	2 × 4	4 × 0	4 × 4	4 × 8	12 × 4	10 × 4
4 × 11	12 × 4	4 × 4	4 × 3	4 × 4	4 × 2	1 × 4	2 × 4	4 × 1
4 × 8	4 × 9	11 × 4	4 × 4	4 × 1	2 × 4	4 × 0	4 × 2	4 × 3

Challenge: Use the symbols <, > and = to complete these number sentences.

3 × 6 **<** 7 × 3

3 × 11 **>** 8 × 3

3 × 4 **=** 4 × 3

Christmas Maths Mosaic

Multiplication 8× Table

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

0, 8, 16, 24 = green **32** = yellow **40, 48** = red

56 = brown **64, 72** = purple **80, 88, 96** = blue

8 × 10	10 × 8	8 × 10	11 × 8	8 × 4	11 × 8	10 × 8	8 × 10	10 × 8
8 × 11	12 × 8	8 × 12	8 × 0	2 × 8	8 × 8	8 × 10	8 × 11	12 × 8
8 × 12	10 × 8	8 × 10	8 × 5	9 × 8	8 × 1	8 × 12	8 × 11	8 × 10
11 × 8	8 × 11	3 × 8	8 × 9	8 × 6	2 × 8	8 × 2	11 × 8	8 × 11
10 × 8	8 × 10	8 × 8	8 × 3	0 × 8	6 × 8	8 × 3	8 × 12	11 × 8
8 × 12	8 × 9	0 × 8	3 × 8	8 × 1	8 × 2	5 × 8	2 × 8	10 × 8
11 × 8	3 × 8	8 × 8	2 × 8	0 × 8	8 × 3	3 × 8	8 × 6	11 × 8
8 × 3	1 × 8	0 × 8	9 × 8	3 × 8	8 × 2	6 × 8	8 × 0	8 × 2
8 × 0	3 × 8	8 × 2	3 × 8	8 × 8	8 × 5	8 × 3	8 × 2	8 × 1
11 × 8	8 × 12	11 × 8	8 × 7	7 × 8	8 × 7	10 × 8	8 × 12	8 × 11

Challenge: Are the following calculations true or false? Prove your answer.

8 × 6 = 42

4 × 8 = 32

0 × 8 = 8

Christmas Maths Mosaic **Answers**

Multiplication 8× Table

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

0, 8, 16, 24 = green **32** = yellow **40, 48** = red

56 = brown **64, 72** = purple **80, 88, 96** = blue

8 × 10	10 × 8	8 × 10	11 × 8	8 × 4	11 × 8	10 × 8	8 × 10	10 × 8
8 × 11	12 × 8	8 × 12	8 × 0	2 × 8	8 × 8	8 × 10	8 × 11	12 × 8
8 × 12	10 × 8	8 × 10	8 × 5	9 × 8	8 × 1	8 × 12	8 × 11	8 × 10
11 × 8	8 × 11	3 × 8	8 × 9	8 × 6	2 × 8	8 × 2	11 × 8	8 × 11
10 × 8	8 × 10	8 × 8	8 × 3	0 × 8	6 × 8	8 × 3	8 × 12	11 × 8
8 × 12	8 × 9	0 × 8	3 × 8	8 × 1	8 × 2	5 × 8	2 × 8	10 × 8
11 × 8	3 × 8	8 × 8	2 × 8	0 × 8	8 × 3	3 × 8	8 × 6	11 × 8
8 × 3	1 × 8	0 × 8	9 × 8	3 × 8	8 × 2	6 × 8	8 × 0	8 × 2
8 × 0	3 × 8	8 × 2	3 × 8	8 × 8	8 × 5	8 × 3	8 × 2	8 × 1
11 × 8	8 × 12	11 × 8	8 × 7	7 × 8	8 × 7	10 × 8	8 × 12	8 × 11

Challenge: Are the following calculations true or false? Prove your answer.

8 × 6 = 42 **False – 8 × 6 = 48**

4 × 8 = 32 **True**

0 × 8 = 8 **False – 0 × 8 = 0 (Any number multiplied by 0 is always 0.)**

Christmas Maths Mosaic

Multiplication 3×, 4× and 8× Tables

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

0 - 10 = green

11 - 20 = black

21 - 30 = red

31 - 40 = brown

41 - 70 = blue

71 < = white

7 × 8	8 × 1	11 × 4	12 × 4	6 × 8	11 × 4	7 × 8	4 × 0	4 × 11
4 × 12	0 × 3	8 × 1	12 × 4	8 × 7	8 × 6	0 × 8	3 × 3	4 × 12
4 × 12	6 × 8	3 × 2	3 × 8	4 × 12	3 × 7	4 × 2	12 × 4	8 × 6
11 × 4	4 × 12	8 × 10	9 × 8	4 × 6	8 × 11	8 × 12	4 × 11	12 × 4
6 × 8	11 × 8	10 × 8	8 × 12	9 × 8	10 × 8	8 × 10	8 × 11	7 × 8
10 × 8	8 × 4	8 × 9	11 × 3	8 × 11	8 × 5	9 × 8	5 × 3	8 × 12
8 × 5	10 × 4	8 × 11	4 × 9	8 × 10	4 × 4	8 × 5	8 × 4	9 × 8
4 × 9	8 × 2	3 × 11	4 × 8	12 × 8	8 × 4	4 × 9	3 × 11	4 × 10
3 × 12	8 × 4	4 × 9	3 × 11	3 × 4	4 × 10	5 × 8	3 × 11	8 × 5
2 × 8	8 × 5	9 × 4	8 × 4	4 × 10	12 × 3	4 × 9	5 × 4	4 × 10

Challenge: Which of these calculations has the greatest answer?

5 × 3 10 × 3 8 × 7 4 × 6 12 × 4

Christmas Maths Mosaic **Answers**

Multiplication 3×, 4× and 8× Tables

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

0 - 10 = green

11 - 20 = black

21 - 30 = red

31 - 40 = brown

41 - 70 = blue

71 < = white

7 × 8	8 × 1	11 × 4	12 × 4	6 × 8	11 × 4	7 × 8	4 × 0	4 × 11
4 × 12	0 × 3	8 × 1	12 × 4	8 × 7	8 × 6	0 × 8	3 × 3	4 × 12
4 × 12	6 × 8	3 × 2	3 × 8	4 × 12	3 × 7	4 × 2	12 × 4	8 × 6
11 × 4	4 × 12	8 × 10	9 × 8	4 × 6	8 × 11	8 × 12	4 × 11	12 × 4
6 × 8	11 × 8	10 × 8	8 × 12	9 × 8	10 × 8	8 × 10	8 × 11	7 × 8
10 × 8	8 × 4	8 × 9	11 × 3	8 × 11	8 × 5	9 × 8	5 × 3	8 × 12
8 × 5	10 × 4	8 × 11	4 × 9	8 × 10	4 × 4	8 × 5	8 × 4	9 × 8
4 × 9	8 × 2	3 × 11	4 × 8	12 × 8	8 × 4	4 × 9	3 × 11	4 × 10
3 × 12	8 × 4	4 × 9	3 × 11	3 × 4	4 × 10	5 × 8	3 × 11	8 × 5
2 × 8	8 × 5	9 × 4	8 × 4	4 × 10	12 × 3	4 × 9	5 × 4	4 × 10

Challenge: Which of these calculations has the greatest answer?

5 × 3 10 × 3 **8 × 7 = 56** 4 × 6 12 × 4