

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

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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.

$3 \times 6 \quad \square \quad 7 \times 3$

$3 \times 11 \quad \square \quad 8 \times 3$

$3 \times 4 \quad \square \quad 4 \times 3$

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.

$3 \times 6 \quad \boxed{<} \quad 7 \times 3$

$3 \times 11 \quad \boxed{>} \quad 8 \times 3$

$3 \times 4 \quad \boxed{=} \quad 4 \times 3$

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.

$$8 \times 6 = 42$$

$$4 \times 8 = 32$$

$$0 \times 8 = 8$$

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.

$8 \times 6 = 42$ **False** – $8 \times 6 = 48$

$4 \times 8 = 32$ **True**

$0 \times 8 = 8$ **False** – $0 \times 8 = 0$ (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

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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

$8 \times 7 = 56$

4×6

12×4