Christmas Multiplication Tables and Division Facts

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

Blue	**Yellow**	**Green**	**Red**	**Brown**
Answer ends in 0	Answer ends in 5	Answer ends in 2 or 4	Answer ends in 6 or 8	Answer ends in 1, 3, 7 or 9

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

Challenge Question: Which calculations in the mosaic above have an answer ending in 4?

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Blue	Yellow	Green	Red	Brown
Answer ends in 0	Answer ends in 5	Answer ends in 2 or 4	Answer ends in 6 or 8	Answer ends in 1, 3, 7 or 9

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

Challenge Question: Which calculations in the mosaic above have an answer ending in 4?

2 × 2, 7 × 2, 2 × 7, 12 × 2, 2 × 12

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Brown	Blue	Red	Black	Green	White
1 - 5	6 - 10	11 - 20	21 - 40	41 - 80	81 - 100

36 ÷ 4	6 ÷ 2	16 ÷ 2	18 ÷ 6	4 × 2	40 ÷ 8	27 ÷ 3	2 × 2	12 ÷ 2
5 × 2	45 ÷ 5	35 ÷ 7	24 ÷ 4	3 × 3	14 ÷ 2	1 × 5	21 ÷ 3	18 ÷ 2
35 ÷ 5	36 ÷ 6	54 ÷ 9	3 × 1	12 ÷ 4	27 ÷ 9	81 ÷ 9	64 ÷ 8	50 ÷ 5
4 × 2	1 × 9	8 ÷ 2	24 ÷ 6	32 ÷ 8	15 ÷ 3	18 ÷ 9	30 ÷ 5	42 ÷ 7
48 ÷ 8	10 × 1	4 × 1	10 × 10	10 ÷ 2	11 × 9	1 × 1	16 ÷ 2	63 ÷ 9
30 ÷ 5	24 ÷ 8	15 ÷ 5	6 × 6	12 ÷ 4	4 × 8	10 ÷ 2	9 ÷ 3	3 × 3
6 × 7	2 × 2	25 ÷ 5	12 ÷ 6	16 ÷ 8	6 ÷ 3	5 × 1	4 ÷ 2	5 × 9
8 × 8	5 × 10	6 ÷ 6	3 ÷ 1	8 ÷ 4	10 ÷ 5	18 ÷ 6	8 × 6	10 × 8
6 × 10	12 × 5	15 ÷ 3	18 ÷ 9	8 ÷ 2	3 × 1	12 ÷ 4	11 × 6	8 × 7
7 × 9	5 × 11	9 × 8	4 × 4	36 ÷ 3	9 × 2	10 × 7	7 × 6	7 × 11

Challenge Question: What is the relationship between 6 × 10 and 12 × 5?

Christmas Multiplication Tables and Division Facts

Brown	Blue	Red	Black	Green	White
1 - 5	6 - 10	11 - 20	21 - 40	41 - 80	81 - 100

36 ÷ 4	6 ÷ 2	16 ÷ 2	18 ÷ 6	4 × 2	40 ÷ 8	27 ÷ 3	2 × 2	12 ÷ 2
5 × 2	45 ÷ 5	35 ÷ 7	24 ÷ 4	3 × 3	14 ÷ 2	1 × 5	21 ÷ 3	18 ÷ 2
35 ÷ 5	36 ÷ 6	54 ÷ 9	3 × 1	12 ÷ 4	27 ÷ 9	81 ÷ 9	64 ÷ 8	50 ÷ 5
4 × 2	1 × 9	8 ÷ 2	24 ÷ 6	32 ÷ 8	15 ÷ 3	18 ÷ 9	30 ÷ 5	42 ÷ 7
48 ÷ 8	10 × 1	4 × 1	10 × 10	10 ÷ 2	11 × 9	1 × 1	16 ÷ 2	63 ÷ 9
30 ÷ 5	24 ÷ 8	15 ÷ 5	6 × 6	12 ÷ 4	4 × 8	10 ÷ 2	9 ÷ 3	3 × 3
6 × 7	2 × 2	25 ÷ 5	12 ÷ 6	16 ÷ 8	6 ÷ 3	5 × 1	4 ÷ 2	5 × 9
8 × 8	5 × 10	6 ÷ 6	3 ÷ 1	8 ÷ 4	10 ÷ 5	18 ÷ 6	8 × 6	10 × 8
6 × 10	12 × 5	15 ÷ 3	18 ÷ 9	8 ÷ 2	3 × 1	12 ÷ 4	11 × 6	8 × 7
7 × 9	5 × 11	9 × 8	4 × 4	36 ÷ 3	9 × 2	10 × 7	7 × 6	7 × 11

Challenge Question: What is the relationship between 6 × 10 and 12 × 5?

Both are 60. Double one number and half the other number gives the same answer when multiplying.

Christmas Multiplication Tables and Division Facts

Solve the calculations to reveal the hidden picture.
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Red	Black	Blue	Yellow/Gold	Purple	White
1 or 2	3 or 4	5 or 6	7 or 8	9 or 10	11 or 12

3 ÷ 3	4 ÷ 2	5 ÷ 5	15 ÷ 3	6 ÷ 1	10 ÷ 2	66 ÷ 11	55 ÷ 11	12 ÷ 2
10 ÷ 5	8 ÷ 8	6 ÷ 3	24 ÷ 4	5 ÷ 1	35 ÷ 7	60 ÷ 12	30 ÷ 5	20 ÷ 4
9 ÷ 9	12 ÷ 6	11 ÷ 11	25 ÷ 5	40 ÷ 8	7 ÷ 1	54 ÷ 9	24 ÷ 3	45 ÷ 9
2 ÷ 1	7 ÷ 7	8 ÷ 4	60 ÷ 6	32 ÷ 4	36 ÷ 6	48 ÷ 6	72 ÷ 12	28 ÷ 4
14 ÷ 7	12 ÷ 12	18 ÷ 9	30 ÷ 6	50 ÷ 10	35 ÷ 5	16 ÷ 2	84 ÷ 12	42 ÷ 7
77 ÷ 7	60 ÷ 5	22 ÷ 2	18 ÷ 3	18 ÷ 2	100 ÷ 10	64 ÷ 8	45 ÷ 5	10 ÷ 1
12 ÷ 4	24 ÷ 6	18 ÷ 6	35 ÷ 7	56 ÷ 8	56 ÷ 7	14 ÷ 2	80 ÷ 10	77 ÷ 11
40 ÷ 10	30 ÷ 10	32 ÷ 8	48 ÷ 8	36 ÷ 4	30 ÷ 3	8 ÷ 1	70 ÷ 7	63 ÷ 7
4 ÷ 1	48 ÷ 12	12 ÷ 3	16 ÷ 4	50 ÷ 5	108 ÷ 12	49 ÷ 7	27 ÷ 3	20 ÷ 2
20 ÷ 5	15 ÷ 5	8 ÷ 2	44 ÷ 11	54 ÷ 6	120 ÷ 12	40 ÷ 5	60 ÷ 6	81 ÷ 9

Challenge question: Write as many calculations as you can using whole numbers that begin 24 ÷.

Christmas Multiplication Tables and Division Facts

Red	Black	Blue	Yellow/Gold	Purple	White
1 or 2	3 or 4	5 or 6	7 or 8	9 or 10	11 or 12

3 ÷ 3	4 ÷ 2	5 ÷ 5	15 ÷ 3	6 ÷ 1	10 ÷ 2	66 ÷ 11	55 ÷ 11	12 ÷ 2
10 ÷ 5	8 ÷ 8	6 ÷ 3	24 ÷ 4	5 ÷ 1	35 ÷ 7	60 ÷ 12	30 ÷ 5	20 ÷ 4
9 ÷ 9	12 ÷ 6	11 ÷ 11	25 ÷ 5	40 ÷ 8	7 ÷ 1	54 ÷ 9	24 ÷ 3	45 ÷ 9
2 ÷ 1	7 ÷ 7	8 ÷ 4	60 ÷ 6	32 ÷ 4	36 ÷ 6	48 ÷ 6	72 ÷ 12	28 ÷ 4
14 ÷ 7	12 ÷ 12	18 ÷ 9	30 ÷ 6	50 ÷ 10	35 ÷ 5	16 ÷ 2	84 ÷ 12	42 ÷ 7
77 ÷ 7	60 ÷ 5	22 ÷ 2	18 ÷ 3	18 ÷ 2	100 ÷ 10	64 ÷ 8	45 ÷ 5	10 ÷ 1
12 ÷ 4	24 ÷ 6	18 ÷ 6	35 ÷ 7	56 ÷ 8	56 ÷ 7	14 ÷ 2	80 ÷ 10	77 ÷ 11
40 ÷ 10	30 ÷ 10	32 ÷ 8	48 ÷ 8	36 ÷ 4	30 ÷ 3	8 ÷ 1	70 ÷ 7	63 ÷ 7
4 ÷ 1	48 ÷ 12	12 ÷ 3	16 ÷ 4	50 ÷ 5	108 ÷ 12	49 ÷ 7	27 ÷ 3	20 ÷ 2
20 ÷ 5	15 ÷ 5	8 ÷ 2	44 ÷ 11	54 ÷ 6	120 ÷ 12	40 ÷ 5	60 ÷ 6	81 ÷ 9

Challenge question: Write as many calculations as you can using whole numbers that begin 24 ÷.

24 ÷ 1 = 24, 24 ÷ 2 = 12, 24 ÷ 3 = 8, 24 ÷ 4 = 6, 24 ÷ 6 = 4, 24 ÷ 8 = 3, 24 ÷ 12 = 2, 24 ÷ 24 = 1