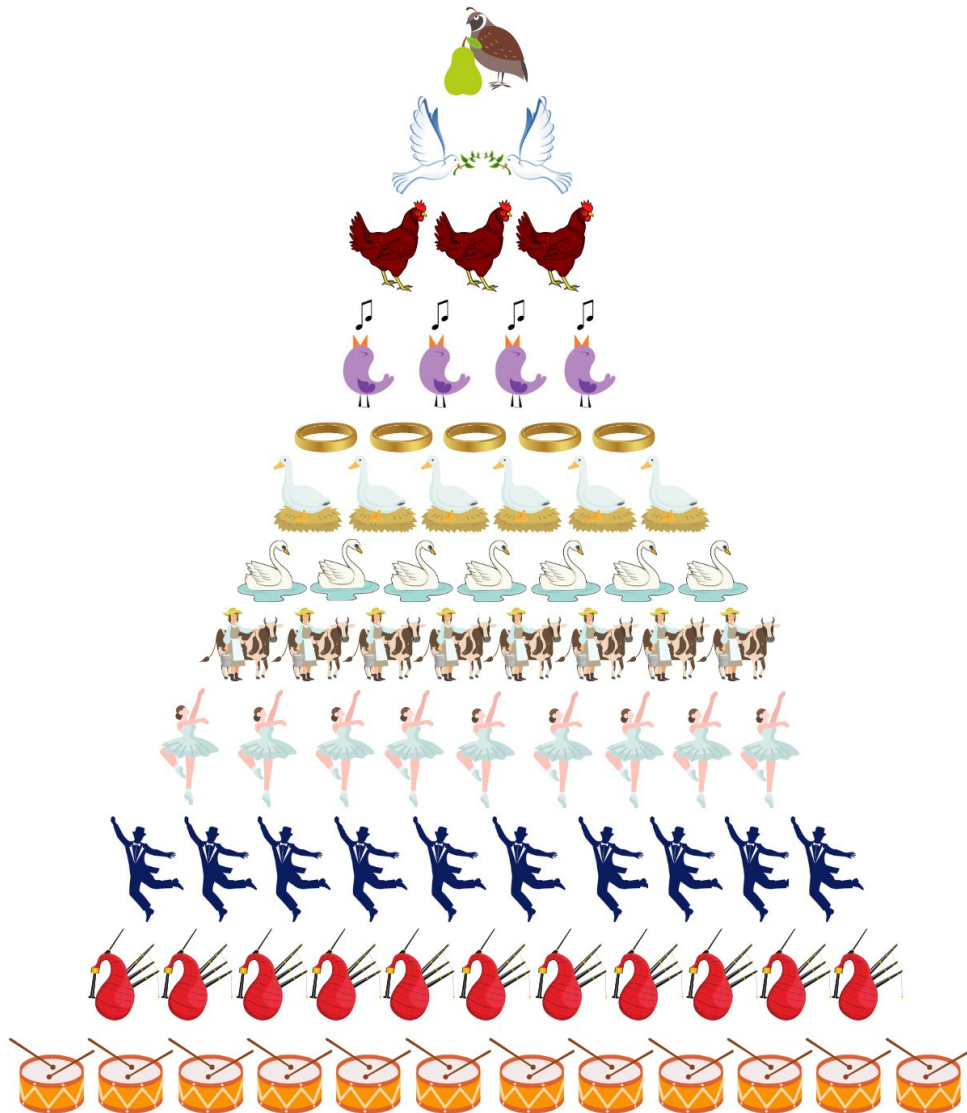




The 12 Days of Christmas Puzzle



On the twelfth day of Christmas, my true love sent to me:

Twelve drummers drumming,
Eleven pipers piping,
Ten lords a-leaping,
Nine ladies dancing,
Eight maids a-milking,
Seven swans a-swimming,
Six geese a-laying,
Five golden rings,
Four calling birds,
Three French hens,
Two turtle doves,
And a partridge in a pear tree.



The 12 Days of Christmas Puzzle

Complete the table by filling in:

- how many in total you receive of each gift
- how many gifts in total you receive each day

Then come back and answer the following questions:

1. How many gifts do you receive in total across all 12 days?
2. If you share the total of gifts received equally between four people, how many gifts does each person get?
3. How many birds are sent in total across all 12 days?
4. How many people arrive in total across all 12 days?
5. In total, how many musicians are playing on the last day?
6. Overall, which gifts do you receive the most of?

Now just thinking of the last day, i.e. the Twelfth Day of Christmas:

7. How many legs are sent on the last day?
8. And how many wings are sent on the last day?



The 12 Days of Christmas Puzzle

	Partridge in a Pear Tree	Turtle Doves	French Hens	Calling Birds	Golden Rings	Geese a-laying	Swans a-swimming	Maids a-milking	Ladies dancing	Lords a-leaping	Pipers piping	Drummers drumming	TOTAL
Day 1													
Day 2													
Day 3													
Day 4													
Day 5													
Day 6													
Day 7													
Day 8													
Day 9													
Day 10													
Day 11													
Day 12													
TOTAL													

SPOILER ALERT!

answers below

The 12 Days of Christmas Puzzle: Answers

	Partridge in a Pear Tree	Turtle Doves	French Hens	Calling Birds	Golden Rings	Geese a-laying	Swans a-swimming	Maids a-milking	Ladies dancing	Lords a-leaping	Pipers piping	Drummers drumming	TOTAL
Day 1	1	0	0	0	0	0	0	0	0	0	0	0	1
Day 2	1	2	0	0	0	0	0	0	0	0	0	0	3
Day 3	1	2	3	0	0	0	0	0	0	0	0	0	6
Day 4	1	2	3	4	0	0	0	0	0	0	0	0	10
Day 5	1	2	3	4	5	0	0	0	0	0	0	0	15
Day 6	1	2	3	4	5	6	0	0	0	0	0	0	21
Day 7	1	2	3	4	5	6	7	0	0	0	0	0	28
Day 8	1	2	3	4	5	6	7	8	0	0	0	0	36
Day 9	1	2	3	4	5	6	7	8	9	0	0	0	45
Day 10	1	2	3	4	5	6	7	8	9	10	0	0	55
Day 11	1	2	3	4	5	6	7	8	9	10	11	0	66
Day 12	1	2	3	4	5	6	7	8	9	10	11	12	78
TOTAL	12	22	30	36	40	42	42	40	36	30	22	12	364



The 12 Days of Christmas Puzzle: Answers

1. How many gifts do you receive in total across all 12 days?

$$12 + 22 + 30 + 36 + 40 + 42 + 42 + 40 + 36 + 30 + 22 + 12 = 364$$

or

$$1 + 3 + 6 + 10 + 15 + 21 + 28 + 36 + 45 + 55 + 66 + 78 = 364$$

2. If you share the total of gifts received equally between four people, how many gifts does each person get?

$$364 \text{ divided by } 4 = 91 \text{ gifts each}$$

3. How many birds are sent in total across all 12 days?

$$12 \text{ partridges} + 22 \text{ turtle doves} + 30 \text{ French hens} + 36 \text{ calling birds} + 42 \text{ geese} + 42 \text{ swans} = 184 \text{ birds}$$

4. How many people arrive in total across all 12 days?

$$40 \text{ maids} + 36 \text{ ladies} + 30 \text{ lords} + 22 \text{ pipers} + 12 \text{ drummers} = 140 \text{ people}$$

5. In total, how many musicians are playing on the last day?

$$22 \text{ pipers} + 12 \text{ drummers} = 34 \text{ musicians}$$

6. Overall, which gifts do you receive the most of?

geese and swans (42 of each)

7. How many legs are sent on the last day?

146 legs! (78 gifts in total; minus 5 rings without legs = 73; multiplied by 2 legs each = 146) or 178 legs if you include a cow for each of the maids a-milking (8 cows x 4 legs = 32 legs; 146 + 32 = 178)

8. And how many wings are sent on the last day?

$$23 \text{ birds on the last day (1 partridge} + 2 \text{ doves} + 3 \text{ French hens} + 4 \text{ calling birds} + 6 \text{ geese} + 7 \text{ swans)} \times 2 \text{ wings each} = 46 \text{ wings}$$