

## Year 4: Tally charts and frequency tables: answers

Year 4 - Pictograms, Bar Charts and Time Graphs - Lesson 11.1

**Answers.** Final answers to the worksheet questions. Full step-by-step solutions for every question are free at [websink.site/ks2-sats/maths/year-4/ch11-statistics/tally-charts-and-frequency-tables/](https://websink.site/ks2-sats/maths/year-4/ch11-statistics/tally-charts-and-frequency-tables/)

### Exercise 11A Tally charts and frequency tables Non-calculator

1 How many tally marks are there? Write each number.

(a)

|||| |

Answer: 7

(b)

|||| ||| |

Answer: 12

(c)

|||| ||| || |

Answer: 16

(d)

|||| ||| ||| ||| ||

Answer: 23

2 Draw tally marks to show each number.

(a) 6

Answer:

|||| |

(6)

(b) 9

Answer:

|||| |||

(9)

(c) 15

Answer:

|||| ||| |||

(15)

(d) 21

Answer:

|||| ||| ||| ||| |

(21)

3 Children in Class 4 chose their favourite pet. The tally chart shows the results.

| Pet    | Tally |
|--------|-------|
| Dog    |       |
| Cat    |       |
| Rabbit |       |
| Fish   |       |

(a) How many children chose cats?

**Answer:** 15

(b) Which pet got the fewest votes?

**Answer:** Rabbit

(c) How many children voted altogether?

**Answer:** 43

(d) How many more children chose dogs than fish?

**Answer:** 3

4 Zainab made a tally chart of favourite colours. Write the frequency for each colour. Here is the chart with the Frequency column to fill in.

| Colour | Tally | Frequency |
|--------|-------|-----------|
| Red    |       | <u>?</u>  |
| Blue   |       | <u>?</u>  |
| Green  |       | <u>?</u>  |
| Yellow |       | <u>?</u>  |

(a) Red

**Answer:** 6

(b) Blue

**Answer:** 10

(c) Green

**Answer:** 14

(d) Yellow

**Answer:** 9

5 Jack counted the shapes in a pattern: circle, square, triangle, circle, circle, square, triangle, circle, square, circle, triangle, square, circle, triangle, circle. Make a frequency table. Write the frequency of each shape.

**Answer:** circle: 7, square: 4, triangle: 4

- 6 Leo rolled a dice 24 times. Here are his results: 3, 5, 1, 6, 2, 4, 6, 3, 3, 5, 2, 6, 1, 4, 5, 6, 3, 2, 6, 4, 1, 5, 6, 3.

- (a) How many times did he roll a 6?

**Answer:** 6

- (b) Make a frequency table of his results. Write the frequency of each number from 1 to 6.

**Answer:** 1: 3, 2: 3, 3: 5, 4: 3, 5: 4, 6: 6

- (c) Which number did he roll most often?

**Answer:** 6

- (d) How many times did he roll an **even** number (2, 4 or 6)?

**Answer:** 12

- 7 Mei asked children where they would like to go on a school trip. The table shows the votes.

| Trip   | Frequency |
|--------|-----------|
| Zoo    | 14        |
| Beach  | 9         |
| Museum | 12        |
| Farm   | 5         |

- (a) How many children voted for the museum?

**Answer:** 12

- (b) How many children voted altogether?

**Answer:** 40

- (c) How many more children voted for the zoo than for the farm?

**Answer:** 9

- (d) How many children voted for the beach **or** the farm?

**Answer:** 14

- 8 50 children voted for their favourite snack. Fruit got 17 votes, crisps got 12 and cereal bars got 9. The rest voted for popcorn. How many voted for popcorn?

**Answer:** 12

- 9 Liam asked 40 children how they come to school. Walk 16, bus 9, car 11. The rest cycle. How many cycle?

**Answer:** 4

- 10 Noah looks at this tally and says, "It shows 5, because there are 3 groups and 2 strokes, and  $3 + 2 = 5$ ." What mistake has he made? What number does the tally show?

||||| ||||| ||||| ||

**Answer:** He counted each group as 1. It shows 17

**11** Ella says, "We draw the fifth tally mark across the four so that it is easy to count in fives." Is she right? Explain.

**Answer:** Yes. Groups of 5 are quick to count

**12** Aisha made a tally chart of the vowels in a sentence. Red has 9 tally marks, blue has 4 more than green, and the total is 25. How many tally marks does blue have, and how many does green have?

**Answer:** Blue 10, green 6