

Year 4: Drawing bar charts and choosing a scale: answers

Year 4 - Pictograms, Bar Charts and Time Graphs - Lesson 11.4

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/drawing-bar-charts-and-choosing-a-scale/

Exercise 11D Drawing bar charts and choosing a scale Non-calculator

1 Choose a good scale for each set of numbers. Write what the scale goes up in, and what each gap is worth.

(a) 7, 4, 9, 6

Answer: Go up in 2s with each gap 1

(b) 30, 55, 20, 45

Answer: Go up in 10s with each gap 5

(c) 150, 100, 200, 250

Answer: Go up in 50s

(d) 12, 6, 10, 8

Answer: Go up in 2s

2 The scale on a chart has gaps that are worth 5. How many gaps high is the bar for each number?

(a) 10

Answer: 2

(b) 25

Answer: 5

(c) 40

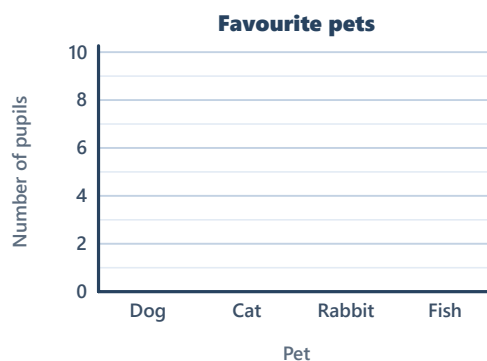
Answer: 8

(d) 35

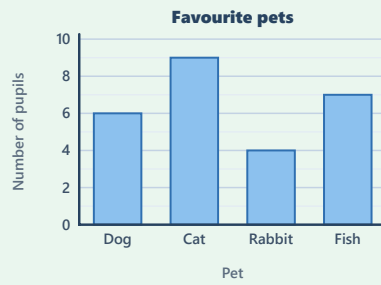
Answer: 7

3 Draw a bar chart for the pets table. Use the axes below. The scale goes up in 2s and each gap is worth 1.

Pet	Dog	Cat	Rabbit	Fish
Pupils	6	9	4	7

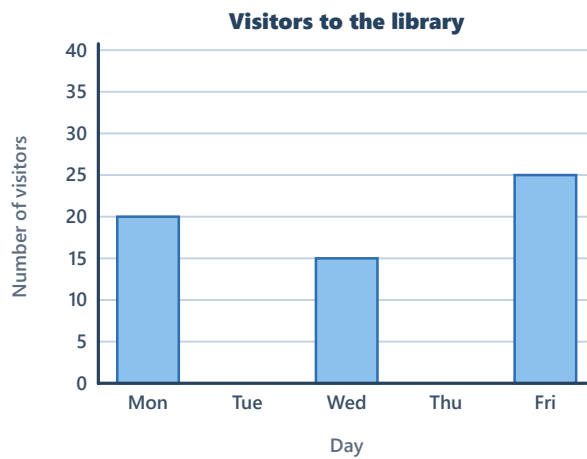


Answer:

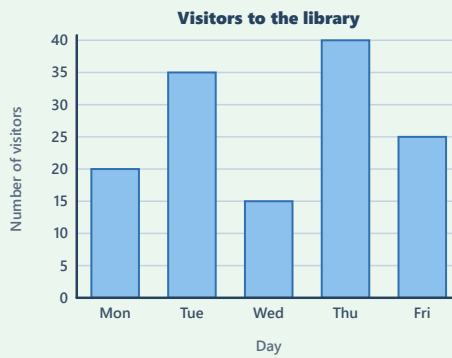


4 Complete the bar chart for the library. Draw the bars for Tuesday and Thursday.

Day	Mon	Tue	Wed	Thu	Fri
Visitors	20	35	15	40	25

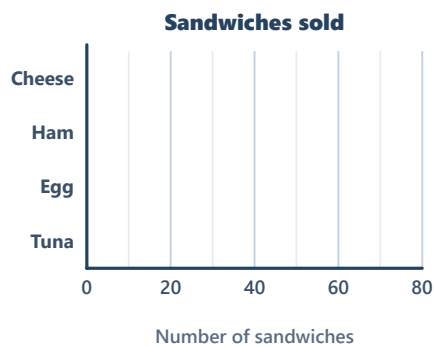


Answer:

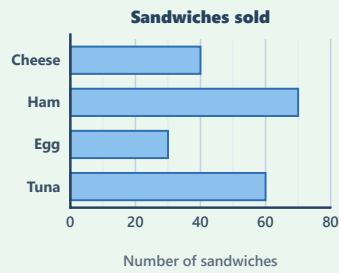


5 Draw a horizontal bar chart for the table. The labels go up in 20s and each gap is worth 10.

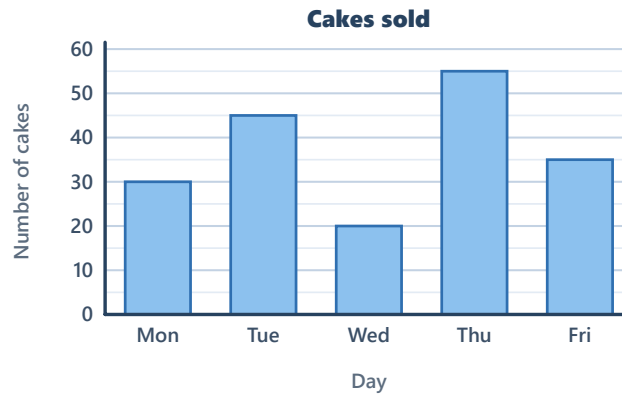
Sandwich	Cheese	Ham	Egg	Tuna
Sold	40	70	30	60



Answer:



6 Complete the table using the bar chart. Write the number of cakes sold each day.



(a) Mon

Answer: 30

(b) Tue

Answer: 45

(c) Wed

Answer: 20

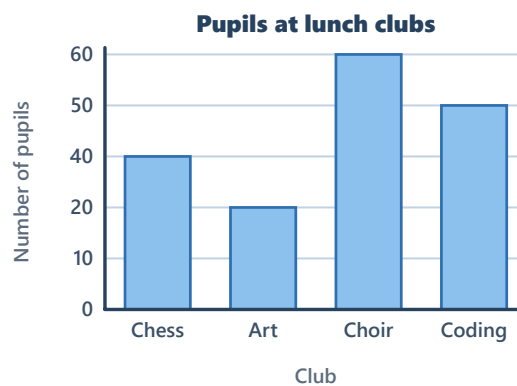
(d) Thu

Answer: 55

(e) Fri

Answer: 35

7 Mei drew this bar chart of pupils at lunch clubs. She has made a mistake with the scale. What is the mistake? Write the labels the scale should have.



Answer: The scale jumps from 20 to 40. It should be 0, 10, 20, 30, 40, 50

- 8 Noah drew a bar chart from the park table. Which bar is wrong, and what should it be?

Day	Mon	Tue	Wed	Thu	Fri
Visitors	25	40	30	15	35



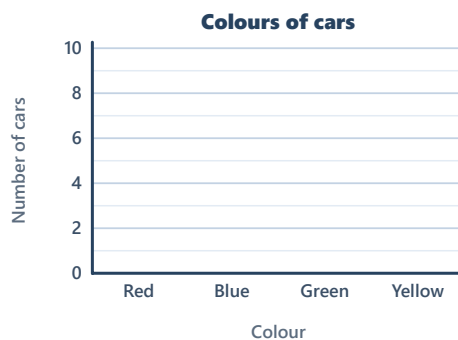
Answer: Wed; it should be 30

- 9 Amira has data from 40 to 90. She says, "I will use a scale that goes up in 1s." Is this a good idea? Explain, and suggest a better scale.

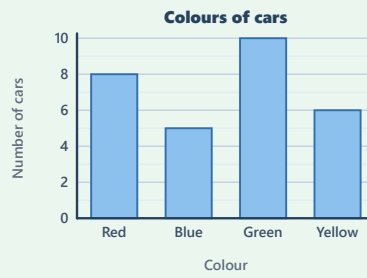
Answer: No. Too many gridlines. Go up in 10s

- 10 Jack made a tally chart of the colours of cars. Count the tally marks, then draw a bar chart. Use a scale that goes up in 2s with each gap worth 1.

Colour	Tally
Red	
Blue	
Green	
Yellow	



Answer:



- 11** Tom draws a bar chart where each gap is worth 20. Which of these numbers can he show **exactly** on a gridline?

(a) 60

Answer: Yes

(b) 130

Answer: No

(c) 90

Answer: No

(d) 140

Answer: Yes

- 12** Zainab says, "When I draw a bar chart I can make the bars as wide or as narrow as I like, as long as they are all different." Do you agree? Explain.

Answer: No. The bars should all be the same width