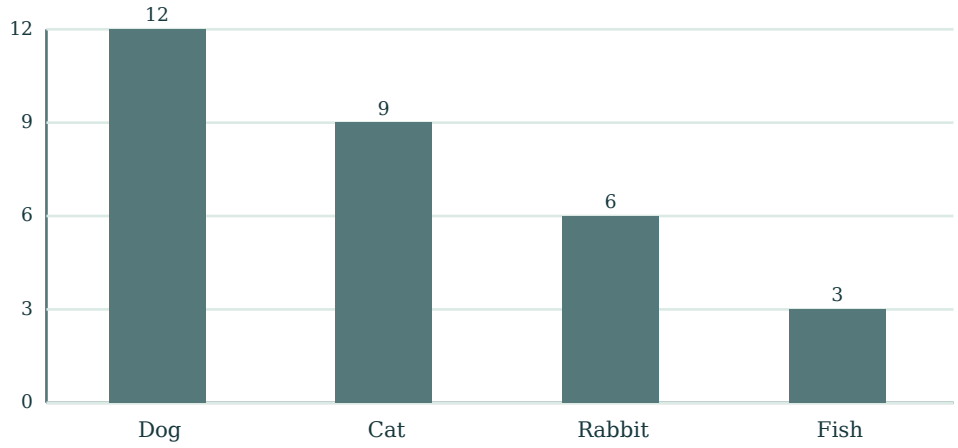
Bar Charts

Foundation | Written solutions

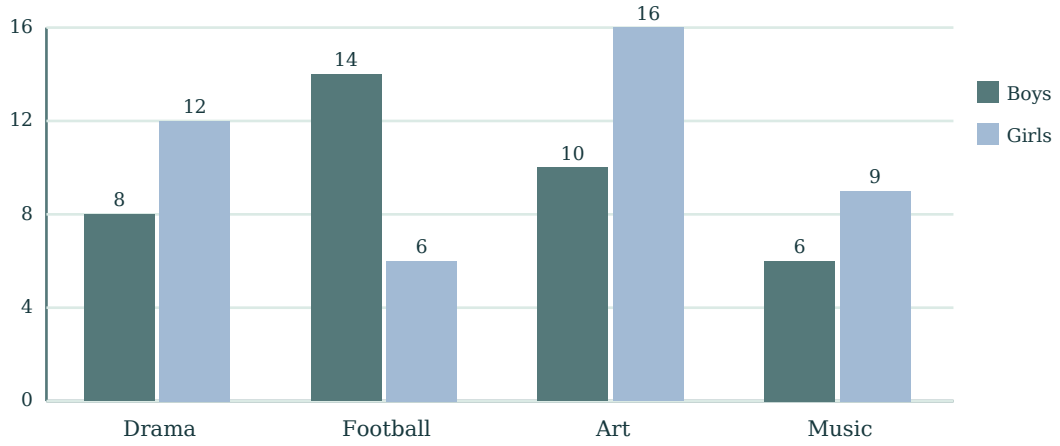
DRAWING AND READING BAR CHARTS

Question 1



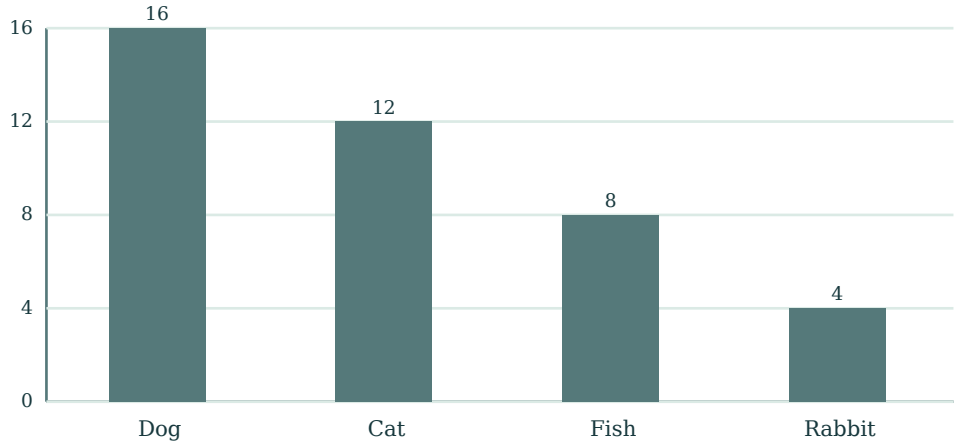
Draw four separate equal-width bars with heights 12, 9, 6, 3, labelled Dog, Cat, Rabbit and Fish. Use a frequency axis starting at zero. Check 12 + 9 + 6 + 3 = 30 students.

Question 2



Use a grouped bar chart with a key and two bars per club. Boys: 8, 14, 10, 6; girls: 12, 6, 16, 9 (Drama, Football, Art, Music).

Question 3



a) Add a Rabbit bar of height 4.

b) Total surveyed = 16 + 12 + 8 + 4 = 40.

c) P(rabbit) = 4/40 = 1/10.

Question 4

Read each pair of bars: Year 7 = 20 girls + 18 boys = 38; Year 8 = 24 + 22 = 46; Year 9 = 18 + 26 = 44; Year 10 = 20 + 28 = 48.

a) Year 9 girls = 18. b) The largest total is Year 10 with 48 students.

c) Of the 46 Year 8 students, 24 are girls. P(girl | Year 8) = 24/46 = 12/23.

Question 5

Three errors: May is plotted at 5 instead of the table value 6; the gaps between the month bars are inconsistent (April and May touch); and the vertical axis has no label such as “Number of rainy days”.