Dual and composite bar charts

Grade 2 | Worked solutions

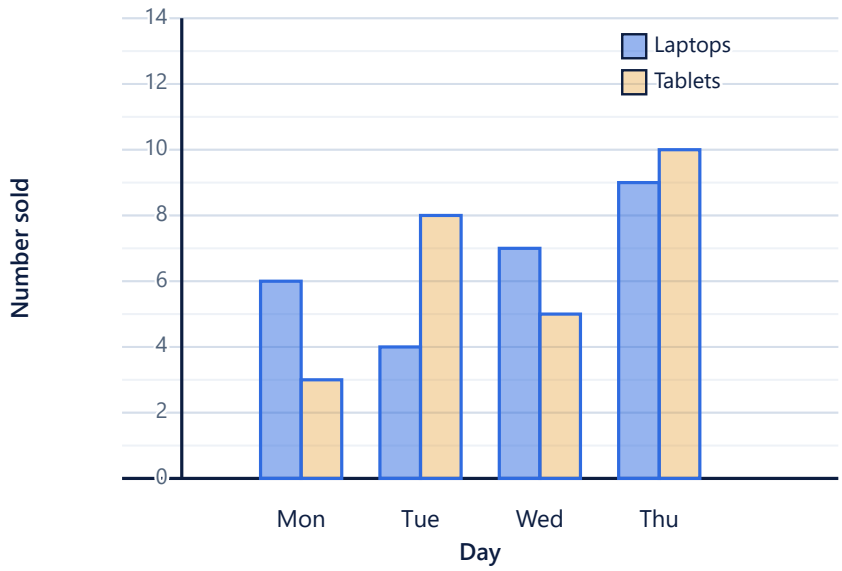
GCSE Statistics topic practice

1 The dual bar chart shows the numbers of laptops and tablets a shop sold on four days.

a. How many laptops were sold on Wednesday? (1)

b. On which day was the difference between the number of laptops sold and the number of tablets sold the greatest? (1)

c. Work out the total number of tablets sold on the four days. (1)



(3 marks)

a) Laptops bar for Wed

7 Laptops

b) biggest gap between the two bars

The differences are 3, 4, 2 and 1

8 − 4 = 4

Tuesday, a difference of 4

c) add the four Tablets bars

3 + 8 + 5 + 10 = 26

a) 7 b) Tuesday c) 26

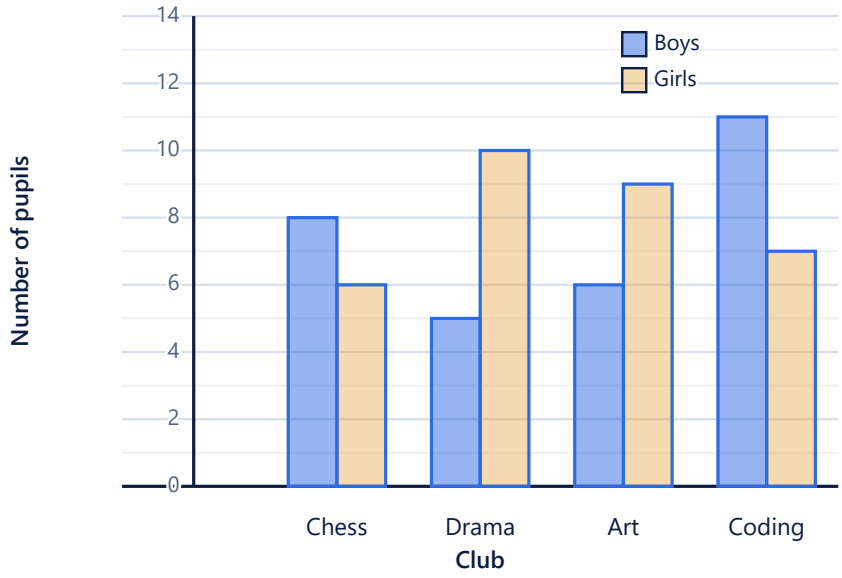
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2 The dual bar chart shows the numbers of boys and girls who go to four after-school clubs.

a. How many girls go to Drama? (1)

b. Write down the two clubs that have more boys than girls. (1)

c. Sami says, "In total, more boys than girls go to these clubs."
Is Sami correct? You must show your working. (2)



(4 marks)

a) girls bar for Drama

10 girls

b) clubs where the boys bar is taller

Chess has 8 boys and 6 girls

Coding has 11 boys and 7 girls

c) total boys

$8 + 5 + 6 + 11 = 30$

total girls

$6 + 10 + 9 + 7 = 32$

$32 > 30$, so there are more girls

Sami is not correct

a) 10 b) Chess and Coding c) No, 30 boys, 32 girls

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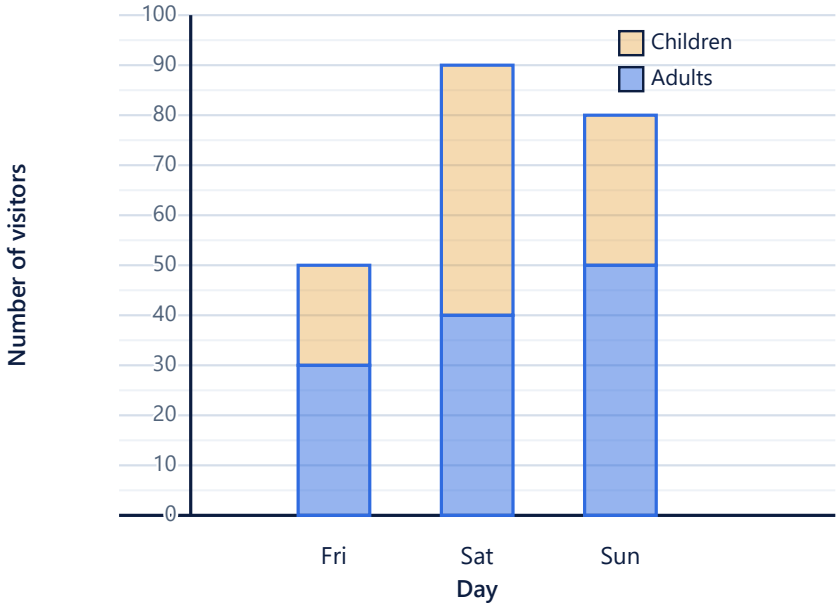
3 The composite bar chart shows the numbers of adults and children who visited a castle on three days.

a. How many adults visited the castle on Friday? (1)

b. Work out the number of children who visited the castle on Saturday. (1)

c. Write down the total number of visitors on Sunday. (1)

d. On which day did the most children visit the castle? (1)



(4 marks)

a) Adults part of the Fri bar

30 adults

b) top of the Sat bar take away the Adults part

90 - 40 = 50

c) top of the Sun bar

80 visitors

d) children on Fri

50 - 30 = 20

children on Sun

80 - 50 = 30

Saturday had the most children, 50

a) 30 b) 50 c) 80 d) Saturday

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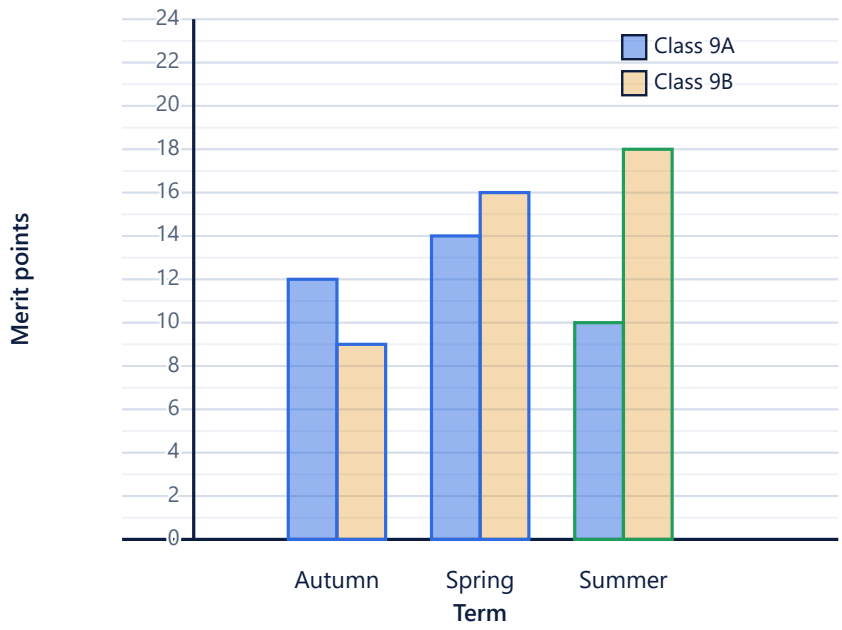
4 The table shows the numbers of merit points won by two classes in each term.

	Autumn	Spring	Summer
Class 9A	12	14	10
Class 9B	9	16	18

The bars for Autumn and Spring have been drawn on the dual bar chart.

a. Complete the dual bar chart for Summer. (2)

b. Compare how the numbers of merit points changed during the year for the two classes. (2)



(4 marks)

a)

Draw the 9A bar for Summer up to 10

Draw the 9B bar next to it, up to 18

Shade the bars to match the key

b) 9B is 9, 16, 18

Class 9B went up every term

9A is 12, 14, 10

Class 9A went up in Spring

then down in Summer

a) bars to 10 and 18 b) 9B rose each term, 9A rose then fell

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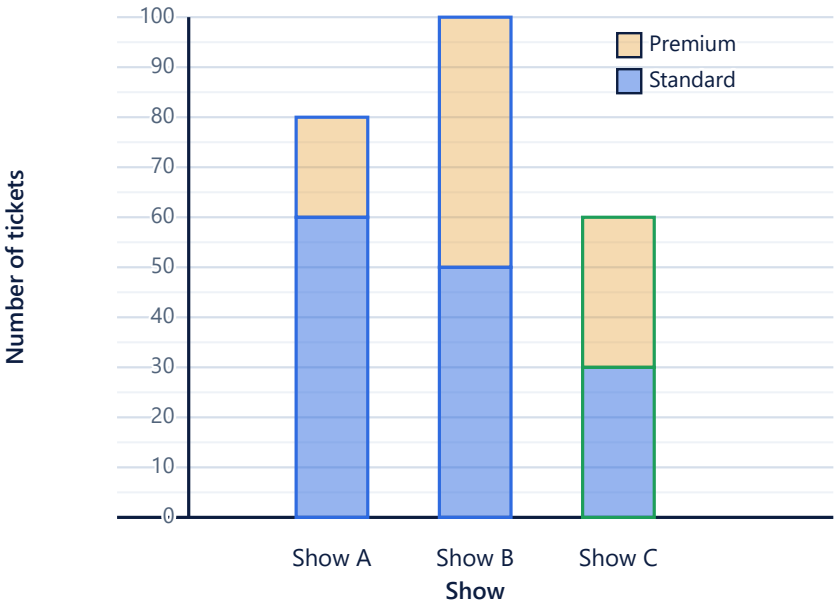
5 A theatre sells standard tickets and premium tickets. The composite bar chart shows the numbers of tickets sold for Show A and Show B.

For Show C the theatre sold 30 standard tickets and 30 premium tickets.

a. Draw the bar for Show C on the composite bar chart. (2)

b. Write down the show that sold the most tickets in total. (1)

c. Rhys says, "Show A had the biggest fraction of standard tickets."
Is Rhys correct? You must show your working. (2)



(5 marks)

a)

Draw the Standard part from 0 up to 30

Draw the Premium part on top, from 30 up to 60

b) the tallest bar

Show B, with 100 tickets

c) Show A has 60 standard out of 80

$$\frac{60}{80} = \frac{3}{4}$$

Show B has 50 standard out of 100

$$\frac{50}{100} = \frac{1}{2}$$

Show C has 30 standard out of 60

$$\frac{30}{60} = \frac{1}{2}$$

$\frac{3}{4}$ is the biggest, so Rhys is correct

a) bar to 30, then to 60 b) Show B c) Yes, $\frac{3}{4}$

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