

Varied Fluency

Step 2: Bar Charts

National Curriculum Objectives:

Mathematics Year 3: (3S1) [Interpret and present data using bar charts, pictograms and tables](#)

Mathematics Year 3: (3S2) [Solve one-step and two-step questions \[for example, 'How many more?' and 'How many fewer?'\] using information presented in scaled bar charts and pictograms and tables](#)

Differentiation:

Developing Questions to support drawing and interpreting bar charts from pictograms and tables. Scales of 1, 2 or 10. No half pictures on pictograms or half intervals on bar charts.

Expected Questions to support drawing and interpreting bar charts from pictograms and tables. Scales of 1, 2, 5 or 10. Including half pictures on pictograms, no half intervals on bar charts.

Greater Depth Questions to support drawing and interpreting bar charts from pictograms and tables. Scales of 1, 2, 5 and 10. Including half and quarter pictures on pictograms and half intervals on bar charts, with some different values represented on pictograms.

More [Year 3 Statistics](#) resources.

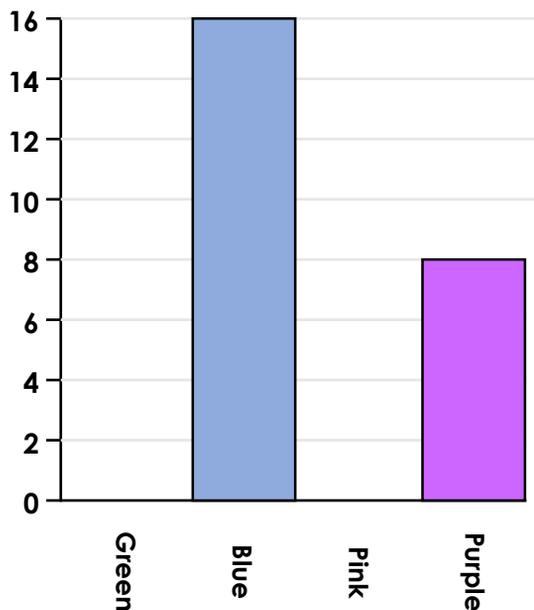
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Bar Charts

1a. Use the information to complete the pictogram and the bar chart.

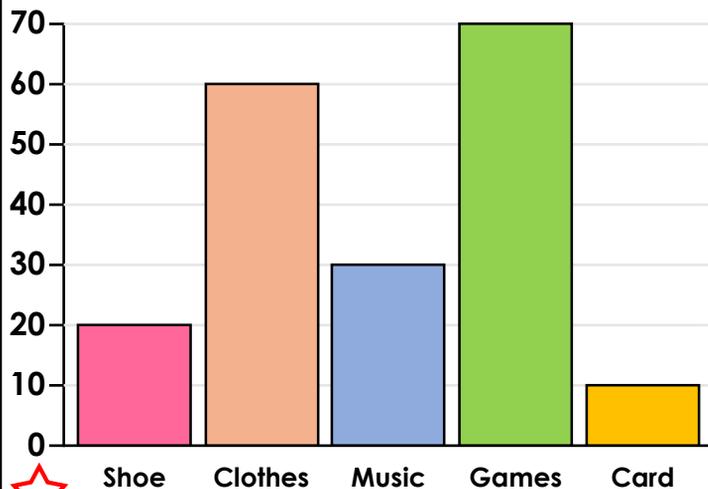
Colour	Number of children
Green	
Blue	
Pink	
Purple	

1 face = 2 children



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2a. Use this bar chart to answer the questions about favourite shops.



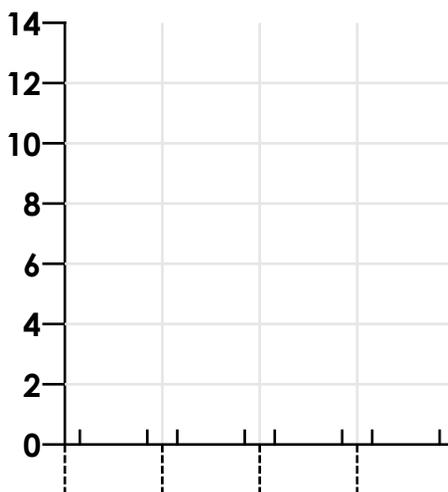
- Which shop is most popular?
- How many more children like clothes shops than card shops?
- How many children like shoe shops?
- How many children are asked in total?



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3a. Create a bar chart using this tally chart.

Favourite dessert	Number of children
Fruit	
Ice cream	
Cake	
Yoghurt	



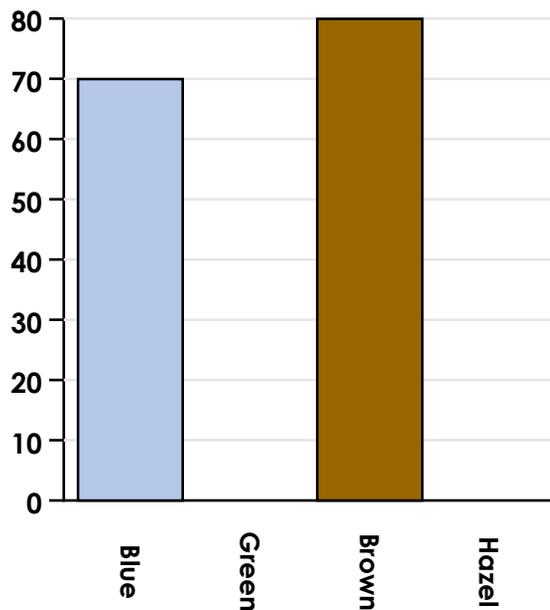
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Bar Charts

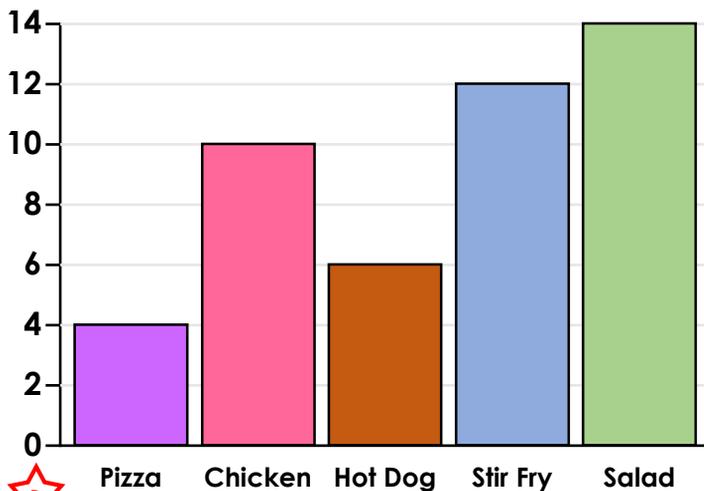
1b. Use the information to complete the pictogram and the bar chart.

Eye colour	Number of children
Blue	
Green	😊❤️
Brown	
Hazel	😊❤️😊❤️😊❤️😊❤️

1 face = 10 children



2b. Use this bar chart to answer the questions about favourite school dinners.

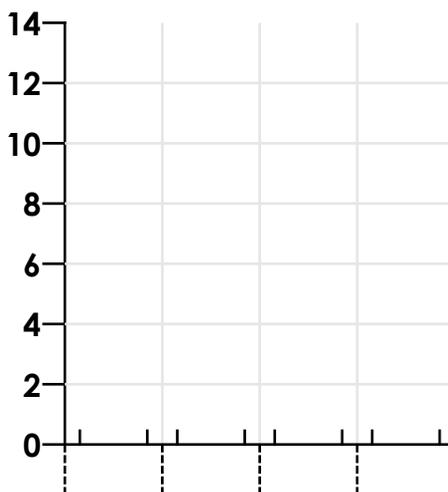


- Which dinner is least popular?
- How many more children like salad than hot dogs?
- How many children like chicken?
- How many children are asked in total?



3b. Create a bar chart using this tally chart.

Day	Number of apples sold
Monday	I
Tuesday	
Wednesday	
Thursday	

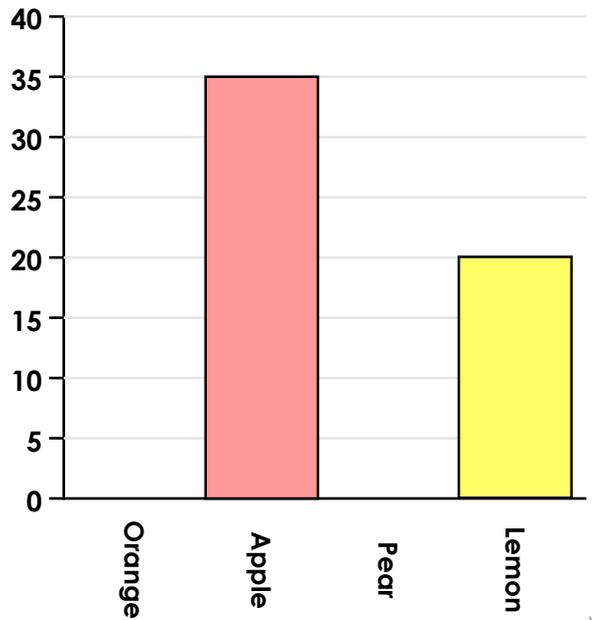


Bar Charts

4a. Use the information to complete the pictogram and the bar chart.

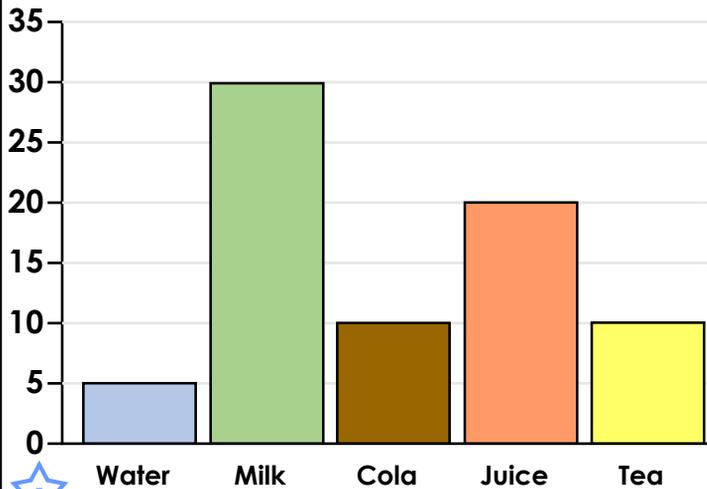
Fruit	Number of children
Orange	
Apple	
Pear	
Lemon	

 = 10 children



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5a. Use this bar chart to answer the questions about favourite drinks.



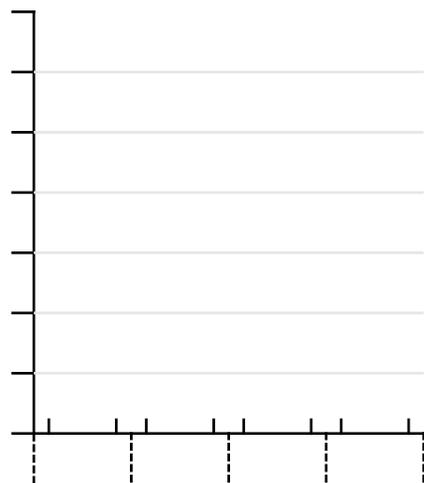
- How many children like cola?
- How many more children like milk than juice?
- How many children like water and tea altogether?
- How many children are asked in total?



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6a. Create a bar chart using this tally chart. Use a scale of 2 and add in the labels.

Favourite Sports	Number of children
Swimming	
Football	
Rugby	
Golf	



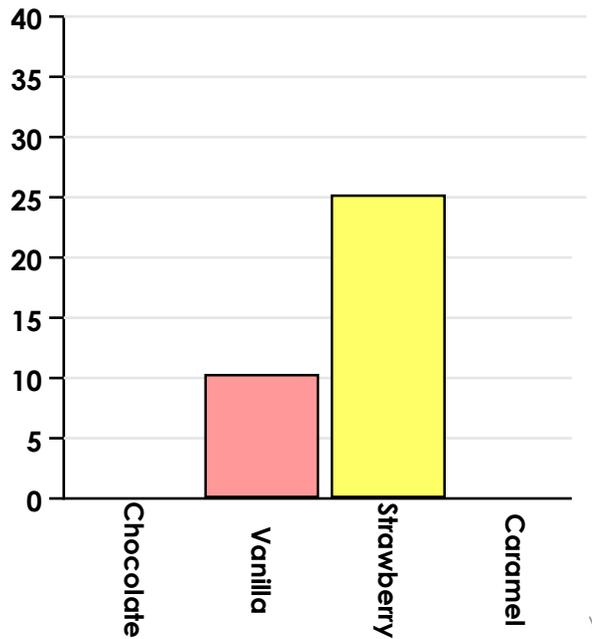
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Bar Charts

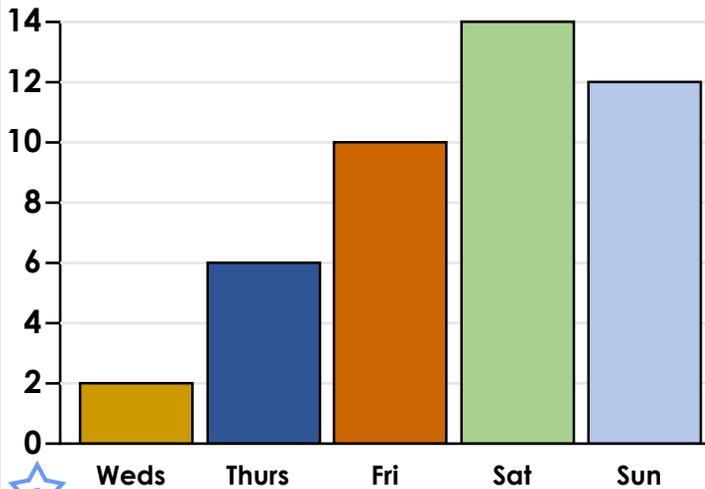
4b. Use the information to complete the pictogram and the bar chart.

Ice cream	Number of children
Chocolate	🍷 🍷 🍷 🍷
Vanilla	
Strawberry	
Caramel	🍷 🍷

🍷 = 10 children



5b. Use this bar chart to answer the questions about the number of diners in a restaurant.

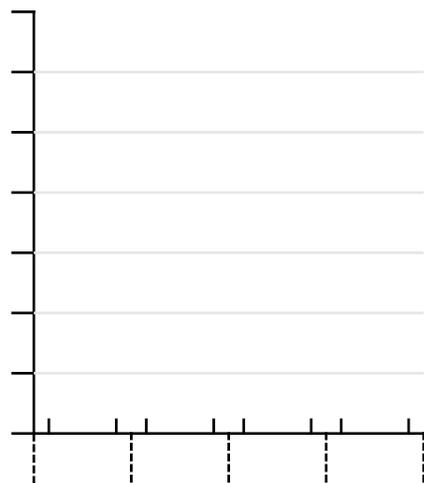


- How many diners are there on Thursday?
- How many fewer diners are there on Wednesday compared to Sunday?
- How many diners are there at the weekend?
- How many diners are there in total?



6b. Create a bar chart using this tally chart. Use a scale of 5 and add in the labels.

Favourite TV shows	Number of children
Drama	
Comedy	
Cartoons	
News	

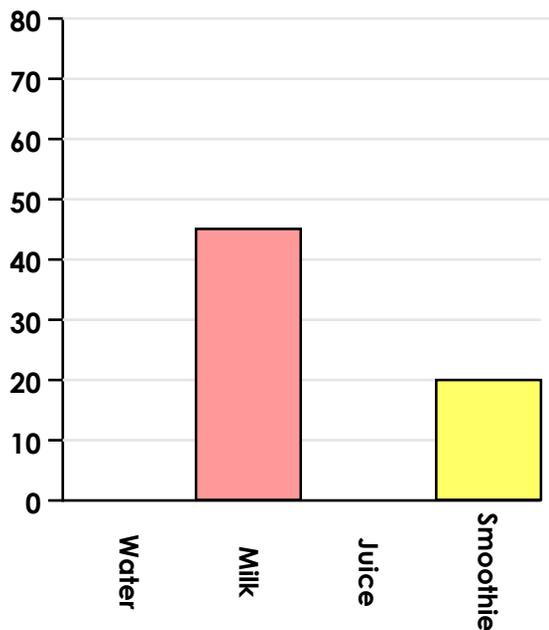


Bar Charts

7a. Use the information to complete the pictogram and the bar chart.

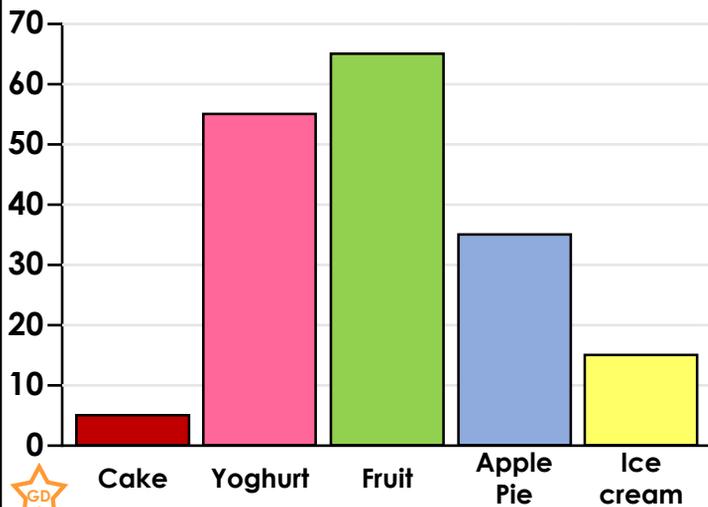
Drinks sold	Number of drinks
Water	
Milk	
Juice	
Smoothie	

 = 2 cups
 = 4 cups



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8a. Use this bar chart to answer the questions about desserts sold in a cafe.



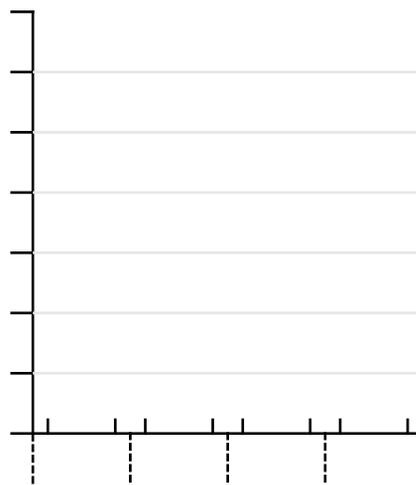
- How many portions of apple pie were sold?
- How many fewer portions of ice cream were sold than fruit?
- Which dessert was least popular?
- How many portions of dessert were sold altogether?



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9a. Create a bar chart using this tally chart. Write on the correct scale and labels.

Pizzas	Number of pizzas sold
Cheese	
Veggie	
Pepperoni	
Tuna	



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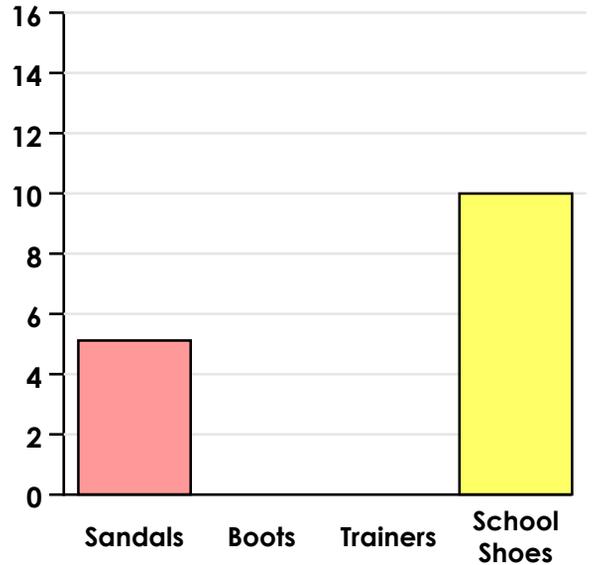
Bar Charts

7b. Use the information to complete the pictogram and the bar chart.

Shoes	Number of pairs of shoes sold
Sandals	
Boots	
Trainers	
School Shoes	

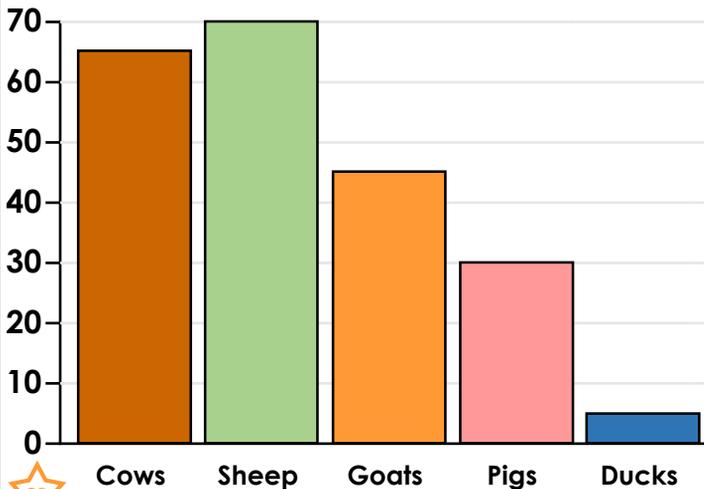
 = 2 pairs

 = 4 pairs



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8b. Use this bar chart to answer the questions about the number of animals on a farm.



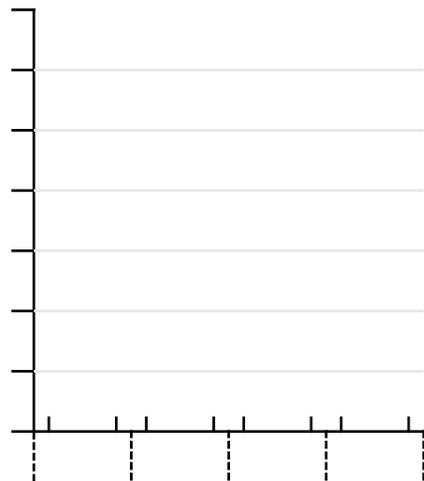
- How many goats are there?
- How many fewer ducks are there than pigs?
- How many four-legged animals are there?
- How many animals are there in total?



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9b. Create a bar chart using this tally chart. Write on the correct scale and labels.

Teams	Number of points scored
Green	
Blue	
Red	
Purple	



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Varied Fluency Bar Charts

Developing

1a. 8 faces for blue and 4 faces for purple on the pictogram. Green to 16 and pink to 10 on the bar chart.

2a. A. Games; B. 50; C. 20; D. 190

3a. Accept an accurate bar chart with appropriate labels which shows 14 for fruit, 8 for ice cream, 10 for cake and 6 for yoghurt.

Expected

4a. 3 and a half fruit bowls for apples and 2 fruit bowls for lemons on the pictogram. Oranges to 25 and pears to 20 on the bar chart.

5a. A. 10; B. 10, C. 15; D. 75

6a. Accept an accurate bar chart with scale marked and appropriate labels which shows 10 for swimming, 12 for football, 14 for rugby and 6 for golf.

Greater Depth

7a. 45 for milk and 20 for smoothie using one of the values given on the pictogram. Water to 25 and juice to 5 on the bar chart.

8a. A. 35; B. 50; C. Cake; D. 175

9a. Accept an accurate bar chart with appropriate scale and labels which shows 30 for cheese, 38 for veggie, 19 for pepperoni and 26 for tuna.

Varied Fluency Bar Charts

Developing

1b. 7 faces for blue and 8 faces for brown on the pictogram. Green to 10 and hazel to 40 on the bar chart.

2b. A. Pizza; B. 8; C. 10; D. 46

3b. Accept an accurate bar chart with appropriate labels which shows 6 for Monday, 14 for Tuesday, 10 for Wednesday and 4 for Thursday.

Expected

4b. 1 face for vanilla and 2 and a half faces for strawberry on the pictogram. Chocolate to 40 and caramel to 15 on the bar chart.

5b. A. 6; B. 10; C. 26; D. 44

6b. Accept an accurate bar chart with scale marked and appropriate labels which shows 5 for drama, 25 for comedy, 15 for cartoons and 5 for news.

Greater Depth

7b. 5 pairs for sandals and 10 pairs for school shoes using one of the values given on the pictogram. Boots to 7 and trainers to 12 on the bar chart.

8b. A. 45; B. 25; C. 210; D. 215

9b. Accept an accurate bar chart with appropriate scale and labels which shows 30 for green, 21 for blue, 18 for red and 34 for purple.